

EXHIBIT D



BRADLEY D. JUSTUS
1901 L STREET NW
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202.469.3532
BJUSTUS@AXINN.COM

May 31, 2023

Via Email

Yelp, Inc.
c/o Brandon Kressin
Kressin Law Group LLC
10650 Roe, Unit 137
Overland Park, KS 66207
brandon@kressinlg.com

Re: *United States, et al. v. Google LLC*, No. 1:23-CV-00108 (E.D. Va.)

Dear Mr. Kressin:

I am counsel to Defendant Google LLC in the above-captioned litigation. Enclosed is a subpoena for documents that has been served on you. Treatment of discovery materials in this litigation is governed by a Confidentiality Order and an Order Regarding Electronically Stored Information entered by the court. A copy of each Order is included with this subpoena.

Please note that the production deadline for the subpoena is June 14, 2023. The subpoena contains instructions for the place of production of responsive documents. If you would like to discuss an alternative method or place of production (such as via email or FTP), feel free to reach out to me at 202-469-3532 or bjustus@axinn.com. You can also reach out to me with any other questions that you may have regarding the subpoena.

Sincerely,

A handwritten signature in black ink that reads "Bradley Justus".

Bradley D. Justus

UNITED STATES DISTRICT COURT

for the

Eastern District of Virginia



United States et al.

Plaintiff

v.

Google LLC

Defendant

Civil Action No. 1:23-CV-00108

SUBPOENA TO PRODUCE DOCUMENTS, INFORMATION, OR OBJECTS
OR TO PERMIT INSPECTION OF PREMISES IN A CIVIL ACTION

To: Yelp, Inc.

(Name of person to whom this subpoena is directed)

☒ **Production:** **YOU ARE COMMANDED** to produce at the time, date, and place set forth below the following documents, electronically stored information, or objects, and to permit inspection, copying, testing, or sampling of the material:

Described in the attached Exhibit A.

Place: Lexitas Legal 1608 Locust St, Kansas City, MO 64108	Date and Time: 06/14/2023 5:00 pm
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☐ **Inspection of Premises:** **YOU ARE COMMANDED** to permit entry onto the designated premises, land, or other property possessed or controlled by you at the time, date, and location set forth below, so that the requesting party may inspect, measure, survey, photograph, test, or sample the property or any designated object or operation on it.

Place:	Date and Time:
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The following provisions of Fed. R. Civ. P. 45 are attached – Rule 45(c), relating to the place of compliance; Rule 45(d), relating to your protection as a person subject to a subpoena; and Rule 45(e) and (g), relating to your duty to respond to this subpoena and the potential consequences of not doing so.

Date: 05/31/2023

CLERK OF COURT

OR

Bradley Justus

Signature of Clerk or Deputy Clerk

Attorney's signature

The name, address, e-mail address, and telephone number of the attorney representing (name of party) Google LLC

, who issues or requests this subpoena, are:
Bradley Justus, 1901 L Street NW, Washington, DC 20036, bjustus@axinn.com, 202-469-3532

Notice to the person who issues or requests this subpoena

If this subpoena commands the production of documents, electronically stored information, or tangible things or the inspection of premises before trial, a notice and a copy of the subpoena must be served on each party in this case before it is served on the person to whom it is directed. Fed. R. Civ. P. 45(a)(4).

Civil Action No. 1:23-CV-00108

PROOF OF SERVICE

(This section should not be filed with the court unless required by Fed. R. Civ. P. 45.)

I received this subpoena for *(name of individual and title, if any)* _____
on *(date)* _____.

☐ I served the subpoena by delivering a copy to the named person as follows: _____

_____ on *(date)* _____; or

☐ I returned the subpoena unexecuted because: _____

Unless the subpoena was issued on behalf of the United States, or one of its officers or agents, I have also
tendered to the witness the fees for one day's attendance, and the mileage allowed by law, in the amount of
\$ _____.

My fees are \$ _____ for travel and \$ _____ for services, for a total of \$ _____ 0.00 _____.

I declare under penalty of perjury that this information is true.

Date: _____

Server's signature

Printed name and title

Server's address

Additional information regarding attempted service, etc.:

Federal Rule of Civil Procedure 45 (c), (d), (e), and (g) (Effective 12/1/13)**(c) Place of Compliance.**

(1) For a Trial, Hearing, or Deposition. A subpoena may command a person to attend a trial, hearing, or deposition only as follows:

- (A) within 100 miles of where the person resides, is employed, or regularly transacts business in person; or
- (B) within the state where the person resides, is employed, or regularly transacts business in person, if the person
 - (i) is a party or a party's officer; or
 - (ii) is commanded to attend a trial and would not incur substantial expense.

(2) For Other Discovery. A subpoena may command:

- (A) production of documents, electronically stored information, or tangible things at a place within 100 miles of where the person resides, is employed, or regularly transacts business in person; and
- (B) inspection of premises at the premises to be inspected.

(d) Protecting a Person Subject to a Subpoena; Enforcement.

(1) Avoiding Undue Burden or Expense; Sanctions. A party or attorney responsible for issuing and serving a subpoena must take reasonable steps to avoid imposing undue burden or expense on a person subject to the subpoena. The court for the district where compliance is required must enforce this duty and impose an appropriate sanction—which may include lost earnings and reasonable attorney's fees—on a party or attorney who fails to comply.

(2) Command to Produce Materials or Permit Inspection.

(A) *Appearance Not Required.* A person commanded to produce documents, electronically stored information, or tangible things, or to permit the inspection of premises, need not appear in person at the place of production or inspection unless also commanded to appear for a deposition, hearing, or trial.

(B) *Objections.* A person commanded to produce documents or tangible things or to permit inspection may serve on the party or attorney designated in the subpoena a written objection to inspecting, copying, testing, or sampling any or all of the materials or to inspecting the premises—or to producing electronically stored information in the form or forms requested. The objection must be served before the earlier of the time specified for compliance or 14 days after the subpoena is served. If an objection is made, the following rules apply:

- (i) At any time, on notice to the commanded person, the serving party may move the court for the district where compliance is required for an order compelling production or inspection.
- (ii) These acts may be required only as directed in the order, and the order must protect a person who is neither a party nor a party's officer from significant expense resulting from compliance.

(3) Quashing or Modifying a Subpoena.

(A) *When Required.* On timely motion, the court for the district where compliance is required must quash or modify a subpoena that:

- (i) fails to allow a reasonable time to comply;
- (ii) requires a person to comply beyond the geographical limits specified in Rule 45(c);
- (iii) requires disclosure of privileged or other protected matter, if no exception or waiver applies; or
- (iv) subjects a person to undue burden.

(B) *When Permitted.* To protect a person subject to or affected by a subpoena, the court for the district where compliance is required may, on motion, quash or modify the subpoena if it requires:

- (i) disclosing a trade secret or other confidential research, development, or commercial information; or

(ii) disclosing an unretained expert's opinion or information that does not describe specific occurrences in dispute and results from the expert's study that was not requested by a party.

(C) *Specifying Conditions as an Alternative.* In the circumstances described in Rule 45(d)(3)(B), the court may, instead of quashing or modifying a subpoena, order appearance or production under specified conditions if the serving party:

- (i) shows a substantial need for the testimony or material that cannot be otherwise met without undue hardship; and
- (ii) ensures that the subpoenaed person will be reasonably compensated.

(e) Duties in Responding to a Subpoena.

(1) Producing Documents or Electronically Stored Information. These procedures apply to producing documents or electronically stored information:

(A) *Documents.* A person responding to a subpoena to produce documents must produce them as they are kept in the ordinary course of business or must organize and label them to correspond to the categories in the demand.

(B) *Form for Producing Electronically Stored Information Not Specified.* If a subpoena does not specify a form for producing electronically stored information, the person responding must produce it in a form or forms in which it is ordinarily maintained or in a reasonably usable form or forms.

(C) *Electronically Stored Information Produced in Only One Form.* The person responding need not produce the same electronically stored information in more than one form.

(D) *Inaccessible Electronically Stored Information.* The person responding need not provide discovery of electronically stored information from sources that the person identifies as not reasonably accessible because of undue burden or cost. On motion to compel discovery or for a protective order, the person responding must show that the information is not reasonably accessible because of undue burden or cost. If that showing is made, the court may nonetheless order discovery from such sources if the requesting party shows good cause, considering the limitations of Rule 26(b)(2)(C). The court may specify conditions for the discovery.

(2) Claiming Privilege or Protection.

(A) *Information Withheld.* A person withholding subpoenaed information under a claim that it is privileged or subject to protection as trial-preparation material must:

- (i) expressly make the claim; and
- (ii) describe the nature of the withheld documents, communications, or tangible things in a manner that, without revealing information itself privileged or protected, will enable the parties to assess the claim.

(B) *Information Produced.* If information produced in response to a subpoena is subject to a claim of privilege or of protection as trial-preparation material, the person making the claim may notify any party that received the information of the claim and the basis for it. After being notified, a party must promptly return, sequester, or destroy the specified information and any copies it has; must not use or disclose the information until the claim is resolved; must take reasonable steps to retrieve the information if the party disclosed it before being notified; and may promptly present the information under seal to the court for the district where compliance is required for a determination of the claim. The person who produced the information must preserve the information until the claim is resolved.

(g) Contempt.

The court for the district where compliance is required—and also, after a motion is transferred, the issuing court—may hold in contempt a person who, having been served, fails without adequate excuse to obey the subpoena or an order related to it.

Exhibit A

United States, et al. v. Google LLC, No. 1:23-cv-00108 (E.D. Va.)
Exhibit A to Subpoena

INSTRUCTIONS

1. In addition to the specific instructions set forth below, these Requests incorporate the instructions set forth in Federal Rule of Civil Procedure 45 (“Federal Rules”), the Local Rules of the U.S. District Court for the Eastern District of Virginia (“Local Rules”), the Stipulation and Order Regarding Discovery Procedure (“ESI Order”) (ECF No. 142), and the Protective Order (ECF No. 203), or the operative version of those Orders in place at the time production is made. Subject to a valid claim of privilege, please produce the entire document if any part of that document is responsive.

2. Please produce all requested documents in Your possession, custody, or control, or available to You, or to which You may gain access through reasonable effort, including information in the possession of Your past and present attorneys, accountants, investigators, consultants, agents, or other persons directly or indirectly employed or retained by You, or anyone else otherwise subject to Your control who maintains records on Your behalf, in Your name, or otherwise under Your control.

3. Pursuant to Federal Rule 45(e)(1), documents must be produced either: (a) as they are kept in the usual course of business (in which case they must be produced in such fashion as to identify the department, branch, or office in whose possession the document was found or the server or central file in which it was found, and the address of each document’s custodian(s)), or (b) segregated as responsive to a specific Request enumerated herein, with such specific Request identified.

4. If any portion of any document is responsive to any Request, a legible version of the entire document must be produced, together with all non-identical copies, versions, and drafts of that document, including all attachments and enclosures.

5. You must retain all of the original documents for inspection or copying throughout the pendency of this Action, any appeal(s), and any related proceedings.

6. You must produce all documents and associated metadata according to the Federal Rules, Local Rules, and, when entered, the governing ESI Order for this Action. Provide instructions and all other materials necessary to use or interpret Your data compilations, such as a data dictionary, with Your production.

7. Data and materials that are stored electronically or in machine-readable form should be produced in electronic form with sufficient information to allow counsel to readily access or read such data or materials.

8. If you object to all or any portion of any of the below Requests, you must identify the objectionable Request or portion thereof, and the nature and basis of the objection. Notwithstanding any objection to any portion of any Request, you must produce all documents and information to which such objection does not apply.

9. If any document responsive to a particular Request no longer exists for reasons other than Your document retention policy, describe the circumstances under which it was lost or destroyed, describe the information lost or destroyed, list the Request to which it was responsive, and list persons with knowledge of the document.

10. If you are unable to produce a document that is responsive to a Request, describe the document, state why it cannot be produced and, if applicable, state the whereabouts of such document when last in your possession, custody, or control.

11. If there are no documents or information responsive to all or any portion of any Request, so state in writing.

12. Other than redactions of privileged information, documents are to be produced in full. If any requested document cannot be produced in full, or if you withhold production of any document or portion of any document responsive to these Requests based upon any

privilege, protection, or immunity, produce it to the extent possible and provide the privilege log information set forth in the governing ESI Order, once entered.

13. In construing the Requests herein:

- a. Terms not specifically defined shall be given their ordinary meaning as You understand them to be used in the trade;
- b. The use of a verb in any tense, mood, or voice shall be construed as the use of the verb in all other tenses, moods, or voices, whenever necessary, to bring within the scope of any Request all information that might otherwise be construed to be outside its scope;
- c. The use of the singular form of any word includes the plural and vice versa;
- d. Words in the masculine, feminine, or neutral gender shall include each of the other genders;
- e. The connectives “and” and “or” shall be construed either disjunctively or conjunctively as necessary to bring within the scope of the Request all responses that might otherwise be construed to be outside of its scope;
- f. The terms “all,” “any,” and “each” shall each be construed as encompassing any and all.

14. None of the Definitions or Requests set forth herein shall be construed as an admission relating to the existence of any evidence, to the relevance or admissibility of any evidence, or to the truth or accuracy of any statement or characterization in the Definitions or the Requests.

15. These Requests are continuing in nature. In the event that You become aware of responsive documents or information in addition to, or in any way inconsistent with, that which You previously have produced, prompt supplementation of Your responses is required.

16. Google specifically reserves the right to seek supplementary responses and the additional supplementary production of documents before trial.

17. Unless otherwise stated, the Requests call for the production of documents from the Relevant Period.

DEFINITIONS

1. To the extent the terms defined below are used in the Requests, they should be construed broadly to the fullest extent of their meaning in a good-faith effort to comply with the Federal Rules and the Local Rules. These Definitions are provided solely for the purposes of this Subpoena.

2. The terms “**Accelerated Mobile Pages**” or “**AMP**” shall mean the open source framework developed by the AMP Open Source Project designed to optimize mobile web browsing and intended to help mobile web pages load faster.

3. The term “**Action**” refers to the above-captioned litigation, *United States, et al. v. Google LLC*, No. 1:23-cv-00108 (E.D. Va.).

4. The term “**Ad Blocking Tool**” shall mean any browser extension or software that prevents ads from being displayed to Users through their web browser.

5. The term “**Ad Buying Tool**” shall mean any third-party or In-House software, application, service, tool, or other interface (including DSPs and Ad Networks) through which an Advertiser Purchased or can Purchase Inventory.

6. The terms “**Ad Exchange**” or “**Supply-Side Platform**” or “**SSP**” shall mean a third-party or In-House product or service through which two or more Ad Buying Tools (at least one of which is not owned or controlled by the entity operating the Ad Exchange) placed or can place Bids in real-time auctions for Inventory offered for sale by or on behalf of two or more Publishers (at least one of which is not owned or controlled by the entity operating the Ad Exchange).

7. The term “**AdMob**” shall mean Google’s mobile app monetization product described on <https://admob.google.com/home/>.

8. The term “**Ad Network**” shall mean a third-party or In-House product or service (other than an Ad Exchange) through which two or more Advertisers (at least one of which is unaffiliated with the entity operating the Ad Network) Purchased or can Purchase Inventory offered for sale by two or more Publishers (at least one of which is unaffiliated with the entity operating the Ad Network).

9. The term “**Ad Selling Tool**” shall mean any third-party or In-House software, application, service, tool, or other interface (including Publisher Ad Servers, Ad Exchanges, Ad Networks, SSPs, Header Bidding, or Header Bidding Wrappers) through which a Publisher sold or can sell Inventory.

10. The term “**Ad Spam**” shall mean Display Advertisements of poor quality (e.g., ads that are popups or have flashing or other unpleasant audiovisual aspects) or objectionable content (e.g., ads that are sexually suggestive, related to illicit activities, etc.).

11. The terms “**Ad Tech**” or “**Ad Tech Product**” shall mean a product, service, application, tool, solution or other interface that facilitates or is involved in the Purchase or sale of Inventory, including but not limited to a Publisher Ad Server, Ad Exchange, Ad Network, Header Bidding, Header Bidding Wrapper, DSP, SSP, other Ad Buying Tool, or other Ad Selling Tool. For the avoidance of doubt, this term includes In-House Ad Tech Products, as well as products or services offered by social media outlets (including but not limited to, for example, Facebook.com and Twitter.com) and certain other Publishers that enable the purchase of Inventory on their Properties via their own In-House Ad Tech Products. This term does not include general-purpose software or systems on which an Ad Tech Product relies.

12. The term “**Ad Tech Provider**” shall mean a person, firm, association, or other entity selling, reselling, licensing, or otherwise providing at least one Ad Tech Product, whether or not for a fee or other compensation.

13. The term “**Advertiser**” shall mean a person or entity that, directly or through one or more intermediaries, places one or more Display Advertisements intended to advertise or promote a good or service offered by that person or entity, or otherwise convey such person or entity’s desired message, on a Publisher’s Property so that it is viewed by at least one User visiting such Property. For the avoidance of doubt, Advertisers typically, but need not, pay for the placement of such Display Advertisements.

14. The term “**AdX**” shall mean Google’s Ad Exchange that was marketed as DoubleClick Ad Exchange, inclusive of all prior and subsequent iterations of the product and all variants thereof, and including, for the avoidance of doubt, the Ad Exchange functionality of Google Ad Manager and Google Ad Manager 360.

15. The term “**Agency**” shall mean an advertising agency or similar consulting firm that is hired by an Advertiser to manage the Purchase of Inventory for one or more Campaigns. For the avoidance of doubt, although an Agency may use DSPs or other tools to manage such Campaigns, an entity operating a DSP shall not, solely on that basis, be deemed an Agency.

16. The term “**Amazon**” shall mean Amazon.com, Inc., any of its current or former parents, subsidiaries, affiliates, divisions, predecessors, successors, officers, directors, employees, agents or representatives, and any other person acting on their behalf.

17. The term “**Attributed Clicks**” shall mean the number of Clicks determined or estimated by an Advertiser, DSP, Ad Network, Ad Exchange, or other person or entity, in the ordinary course of its business, to have resulted from the display of one or more given Impressions to Users.

18. The term “**Attributed Conversions**” shall mean the number of instances in which an Advertiser (or a person or entity acting on behalf of such Advertiser) identifies a specific User action that it has defined as valuable to its business, such as an Online purchase

or phone call, and determines or estimates that action to have resulted, in whole or in part, from the display of one or more Impressions to such User.

19. The term “**Attributed Sales**” shall mean the total amount of sales of products or services that an Advertiser determines or estimates resulted, in whole or in part, from the display of one or more Impressions to Users.

20. The term “**Attribution Model**” shall mean a rule, or set of rules, that determines how credit for sales and/or conversions are assigned to discrete actions taken by the User in the sequences of interactions (i.e., clicks/referrals) that led up to each sale and/or conversion.

21. The term “**Automated Bidding**” shall mean a Feature of an Ad Buying Tool which authorizes the Ad Buying Tool to choose how much to Bid for an Impression.

22. The term “**Bid**” shall mean an offer, made in response to a Query, to pay a specified amount in exchange for the right to render a Display Advertisement in a unit of Inventory.

23. The term “**Bid Data Transfer File**” shall mean the paid Feature on Google Ad Manager 360, the premium version of Google Ad Manager, that provides Publishers with non-aggregated, event-level bid data from Campaigns.

24. The term “**Bid Duplication**” or “**Self-Competition**” shall mean a situation in which Bids from the same Campaign, same Advertiser, or same Buying Tool compete against each other in the same auction or same chain of auctions.

25. The term “**Bid Shading**” shall mean the practice in which an Advertiser and/or Ad Buying Tool submits a Bid into a given auction lower than the Advertiser’s maximum willingness-to-pay to reduce the risk of overpaying for a unit of Inventory.

26. The terms “**Bidder**” or “**Buyer**” shall mean an Advertiser submitting a Bid directly to an Ad Exchange or Publisher Ad Server (without an intermediary), or shall mean a DSP, Ad Network, or other person or entity submitting a Bid to an Ad Exchange or Publisher

Ad Server on behalf of an Advertiser, whether known at the time or to be subsequently determined. For the avoidance of doubt, an Ad Exchange shall not be deemed a Buyer even if it forwards a Bid it received on to another Ad Exchange or Publisher Ad Server.

27. The term “**Brand Protection**” shall mean measures taken by Ad Tech Products to avoid or limit the display of advertisements next to objectionable content or other ads, including without limitation displaying ads next to those of a competitor, next to sexually suggestive content, or next to content related to illicit drugs.

28. The term “**Budget Throttling**” shall mean a method by which Advertisers can manage or pace their advertising budget to distribute ad spend. This includes, without limitation, probabilistic throttling (for example, removing an Advertiser from bidding in auctions on a randomized basis).

29. The term “**Buyer Payment**” shall mean the gross amount paid, from or on behalf of an Advertiser (including by an Agency, DSP, Ad Network, or other intermediary acting on the Advertiser’s behalf), directly to an Ad Exchange, Ad Network, or Publisher, for or in connection with the Purchase of Inventory, before the deduction of any revenue shares or other fees due to the Ad Exchange, Ad Network, or Publisher.

30. The term “**Campaign**” shall mean one or more Display Advertisements that are targeted to particular types of Inventory, Users, or objectives.

31. The term “**Campaign ID**” shall mean a code (such as an alphanumeric string) used to record, track, or distinguish between different Campaigns.

32. The term “**Click**” shall mean an instance of a User clicking on a Display Advertisement, thereby causing the rendering of the associated landing page, but excluding instances in which the click was deemed fraudulent, inadvertent, spam, a bot, or otherwise non-genuine.

33. The term **“Client-Side Header Bidding”** shall mean an implementation of Header Bidding in which the Queries are sent, and responsive Bids are evaluated, by code running at least in part within the User’s web browser.

34. The term **“Coarse Bidding Type”** shall refer to (i) manual (i.e., fixed) versus (ii) automated methods of bidding, where automated bidding refers to the practice of an Ad Buying Tool automatically setting and adjusting bids based on a Buyer-defined objective.

35. The term **“communication”** shall have the meaning provided in Local Rule 26.3, namely, the transmittal of information (in the form of facts, ideas, inquiries or otherwise).

36. The term **“concerning”** shall have the meaning provided in Local Rule 26.3, namely, relating to, referring to, describing, evidencing or constituting.

37. The term **“Connected Television”** shall mean devices or services that allow Users to watch television content served over the internet on a television screen, such as smart TVs (e.g., Samsung, TCL, Sony), media streaming devices (e.g., Roku Streaming Stick, Apple TV, Chromecast), or video game consoles (e.g., Xbox, PlayStation).

38. The term **“Cookie Matching”** shall mean the process of mapping a browser to internet browsing activity using a unique ID.

39. The term **“Cost Type”** shall refer to the basis on which an Advertiser pays for Display Advertising, such as, but not limited to, cost-per-thousand Impressions (“CPM”), cost-per-Click (“CPC”), or cost-per-action (“CPA”).

40. The terms **“Demand-Side Platform”** or **“DSP”** shall mean an Ad Buying Tool, that enables an Advertiser to automatically buy Inventory sold via Ad Selling Tools in real-time on an Impression-by-Impression basis. For the avoidance of doubt, an Agency trading desk shall be deemed a DSP for purposes of this definition.

41. The term **“Demand Partner”** shall mean a DSP, SSP, Ad Network, or other Ad Buying Tool or Ad Selling Tool.

42. The term **“Device Type”** shall mean the electronic device by which the Impression was served, including mobile devices, desktop or laptop computers, tablets, and Connected Televisions.

43. The term **“Direct Transaction”** shall mean a sale or placement of Display Advertising the price of which was determined through a contractual agreement between an Advertiser (or an Agency acting on an Advertiser’s behalf) and a Publisher (without an intervening Ad Tech Intermediary), including for the avoidance of doubt an agreement to set such price through an auction conducted by the Publisher itself or an affiliate thereof.

44. The terms **“Display Advertisement”** or **“Display Advertising”** shall mean Online Advertising other than Search Advertising, and shall include Native, banner, in-app or Video advertising, whether social or non-social.

45. The terms **“Display & Video 360”** or **“DV360”** shall mean Google’s DSP described at <https://support.google.com/displayvideo/answer/9059464?hl=en>, inclusive of all prior iterations of this product or naming conventions, including DoubleClick Bid Manager.

46. The term **“document”** shall have the meaning provided in Local Rule 26.3, namely, that the term shall be synonymous in meaning and equal in scope to the usage of the phrase “documents or electronically stored information” in Federal Rule 34(a)(1)(A). A draft or non-identical copy is a separate document within the meaning of this term.

47. The term **“documents sufficient to show”** means documents sufficient to provide a true and correct disclosure of the factual matter requested.

48. The term **“Domain Spoofing”** shall mean a practice in which Inventory is misrepresented as being from a different web domain than it actually is.

49. The terms **“DoubleClick for Publishers”** or **“DFP”** shall mean Google’s Publisher Ad Server that was marketed as DoubleClick for Publishers, inclusive of all prior and subsequent iterations of the product and all variants thereof (e.g. Small Business,

Enterprise editions, etc.), and including for the avoidance of doubt the ad server functionality of Google Ad Manager and Google Ad Manager 360.

50. The term **“Dynamic Allocation”** shall mean the DFP Feature that enabled demand from AdX to compete in real-time with demand from third-party Ad Exchanges, Ad Networks, and Ad Buying Tools via a price floor for AdX in DFP.

51. The terms **“Dynamic Revenue Share”** or **“Revenue Based Share Optimizations”** shall mean the Google Feature that dynamically adjusted the fees Google charged Publishers to transact via AdX.

52. The term **“Encryption of User IDs”** shall mean the practice of anonymizing the metadata associated with a particular User.

53. The term **“Enhanced Dynamic Allocation”** shall mean the modification to Dynamic Allocation first introduced in or about 2014, which enabled guaranteed and non-guaranteed line items to compete on a per-Impression basis.

54. The term **“Environment”** shall mean the electronic environment in which an Impression is served, meaning in a desktop web browser, in a mobile web browser, in a mobile app (other than a mobile web browser), or via Connected Television.

55. The term **“Express Fees”** shall mean Fees that are explicitly charged to a customer by an Ad Tech Provider, as opposed to merely being retained as a revenue share or retained profit. For example, a DSP fee calculated as a percentage of an Advertiser’s gross spend, and charged to the Advertiser in addition to such gross spend, would be an Express Fee, but a profit or buy-side margin earned by a DSP as the difference between what it charges the Advertiser (e.g. on a cost-per-click basis) and what it pays to Ad Selling Tools or Publishers to purchase such Impressions would not be an Express Fee. Similarly, a CPM fee charged by a Publisher Ad Server (e.g. x cents per thousand impressions served) would be an Express Fee, whereas the revenue share retained by an Ad Exchange (e.g. if the Ad Exchange remits 80%

of gross revenue to the Publisher and retains a 20% revenue share) would not be an Express Fee.

56. The term **“Feature”** shall mean any design, feature, limitation, policy, mechanism, innovation, improvement, optimization, or strategy related to how Ad Tech Products buy, sell, price, bid, or auction Inventory, how Ad Tech Products improve ad quality or Match Quality, how Ad Tech Products measure, or report on the effectiveness of Display Advertising, or how Ad Tech Products integrate or interoperate with other Ad Tech Products, whether owned or operated by the same entity or different entities.

57. The term **“Fees”** shall mean any money retained by a provider of Ad Tech Products, including via Take Rates, for services related to the purchase of Display Advertisements.

58. The term **“First-Party Cookies”** shall mean a browser cookie created and stored by the domain to which the User navigated.

59. The term **“Floor Price”** shall mean the limitation on how low an Advertiser or Ad Buying Tool can bid for Inventory while still being eligible to win the Impression.

60. The term **“Format”** shall mean the general makeup or layout of an ad. Different types of Display Advertising Formats include Native Advertising, Instream Video Advertising, Outstream Video Advertising, and Static Advertising.

61. The term **“Google”** shall mean Google LLC, any current or former parents, subsidiaries, affiliates, divisions, predecessors, officers, directors, employees, agents or representatives, and any other person acting on their behalf.

62. The term **“Google Ads”** shall mean Google’s Ad Buying Tool described on <https://ads.google.com/home/>, inclusive of all prior iterations or naming conventions, including AdWords.

63. The terms **“Google Ad Manager”** or **“GAM”** shall mean the product introduced by Google on June 27, 2018, which brought together DFP and AdX into a unified programmatic platform.

64. The term **“Gross Revenue”** shall mean revenue received from, or on behalf of, the Advertiser Purchasing the Inventory, before the deduction of any and all related fees and/or revenue share.

65. The term **“Guaranteed Transaction”** shall mean a transaction where a specified amount of inventory is purchased.

66. The term **“Header Bidding”** shall mean the use by a Publisher of code that is directly or indirectly called during the web browser’s processing or rendering of the HTML header of a webpage (and prior to the invocation of a Publisher Ad Server) and that causes Queries to be sent to one or more Ad Exchanges, Ad Networks, DSPs, or other sources of demand.

67. The term **“Header Bidding Provider”** shall mean a person, firm, association, or other entity that provides Header Bidding Wrapper services to Publishers.

68. The term **“Header Bidding Wrapper”** shall mean a Header Bidding management system.

69. The term **“identify,”** when referring to a person, shall have the meaning provided in Local Rule 26.3, namely, to give, to the extent known, the person’s full name, present or last known address, and when referring to a natural person, additionally, the present or last known place of employment. Once a person has been identified in accordance with this subparagraph, only the name of that person need be listed in response to subsequent discovery requesting the identification of that person.

70. The term **“identify,”** when referring to documents, shall have the meaning provided in Local Rule 26.3, namely, to give, to the extent known, the (i) type of document;

(ii) general subject matter; (iii) date of the document; and (iv) author(s), addressee(s) and recipient(s).

71. The terms “**impact**” and “**effect**” shall include both qualitative and quantitative, direct and indirect meanings of those terms.

72. The term “**Impression**” shall mean the service of a single Display Advertisement to a single User.

73. The term “**In-House Ad Tech Product**” shall mean an Ad Tech Product created for a Publisher’s, Advertiser’s, or Agency’s internal use.

74. The term “**including**” shall mean including but not limited to.

75. The term “**Indirect Transaction**” shall mean a sale or placement of Display Advertising other than a Direct Transaction, including an Open Auction Transaction or Private Auction Transaction conducted by an Ad Exchange or a purchase of Inventory by an Ad Network for resale to one or more Advertisers.

76. The term “**Instream Video Advertising**” shall mean Online Advertising in which the advertisement is displayed within a stream of video content that the User is viewing, e.g., before, in the middle of, or after the video content.

77. The term “**Inventory**” shall mean space offered by Publishers for the sale or placement of Display Advertising.

78. The term “**Line Item**” shall mean the Feature of a Publisher Ad Server that contains parameters for how a given Display Advertisement is intended to be served on a Publisher’s Property, along with pricing and other delivery details.

79. The term “**Linear Television**” shall mean television delivered in a live broadcast, as opposed to Connected Television.

80. The term “**Malicious Ad**” shall mean an ad, when clicked on, that spawns a forced redirect to an unintended destination or loads a secondary, or tertiary, payload for malicious purposes (including without limitation phishing scams).

81. The terms “**Marketing Mix Model**” or “**Media Mix Model**” shall mean a rule or set of rules that measures the incremental benefit to profits per dollar spent across various forms of advertising, taking account of the possibility that the effectiveness of one form of advertising might depend on the level of spending on another.

82. The term “**Match Quality**” shall mean the effectiveness of matching customer information parameters to a website event.

83. The term “**Meta**” shall mean Meta Platforms, Inc., including Facebook, Inc., any current or former parents, subsidiaries, affiliates, divisions, predecessors, successors, officers, directors, employees, agents or representatives, and any other person acting on their behalf.

84. The term “**Minimum Bid to Win**” shall mean the data that a Bidder receives after an auction is complete that includes the lowest value such Bidder could have bid to win that particular auction.

85. The term “**Mobile Publishing Formats**” shall mean the various methods by which Publishers make their Properties or content available or more accessible on mobile devices, including Accelerated Mobile Pages, Facebook Instant Articles, and Apple News.

86. The term “**Native Advertising**” shall mean Online Advertising that follows the natural form and function of the User experience in which it is placed (such as sponsored ads within a User’s Facebook feed).

87. The term “**Net Revenue**” shall mean revenue received from, or on behalf of, the Advertiser purchasing the Impressions, excluding any and all fees paid to Ad Tech Providers for the transaction.

88. The terms **“Online Advertisement”** or **“Online Advertising”** shall mean advertising via the internet, including on websites, apps, and Connected Television. For example, both Display Advertising and Search Advertising are forms of Online Advertising.

89. The term **“Open Auction Transaction”** shall mean an Indirect Transaction for which all, or substantially all, of the Buyers eligible to bid on the relevant Ad Exchange are or were eligible to submit Bids.

90. The terms **“Open Bidding”** or **“Exchange Bidding”** shall mean the Google product or Feature on DFP, GAM and AdMob that enables Google and third-party Ad Networks and Ad Exchanges to compete in Google-run real-time auctions for Publisher Inventory.

91. The term **“Other Direct Transaction”** shall mean a Direct Transaction other than a Programmatic Guaranteed Transaction, Preferred Deal Transaction, or Publisher-Automated Transaction.

92. The term **“Other Indirect Transaction”** shall mean an Indirect Transaction other than an Open Auction Transaction or a Private Auction Transaction.

93. The term **“Outstream Video Advertising”** shall mean Online Advertising, other than Instream Video Advertising, that includes a video or animation.

94. The term **“Paid Advertising”** shall mean an advertising model whereby Advertisers pay Publishers to display their ads on a Property.

95. The term **“Payment Type”** shall refer to the basis on which a Publisher receives payment for the sale of Display Advertising, such as, but not limited to, cost-per-thousand Impressions (“CPM”), cost-per-Click (“CPC”), or cost-per-action (“CPA”).

96. The term **“person”** shall have the meaning provided in Local Rule 26.3, namely, any natural person or any legal entity, including, without limitation, any business or governmental entity or association.

97. The terms “**Plaintiff**” and “**Defendant**” as well as a party’s full or abbreviated name or a pronoun referring to a party shall have the meaning provided in Local Rule 26.3, namely, the party and, where applicable, its officers, directors, employees, partners, corporate parent, subsidiaries, or affiliates. This definition is not intended to impose a discovery obligation on any person who is not a party to the Action.

98. The term “**Plaintiff State**” shall mean each of the States of Texas, Alaska, Arkansas, Florida, Idaho, Indiana, Louisiana, Mississippi, Missouri, Montana, Nevada, North Dakota, South Carolina, South Dakota, Utah, and the Commonwealths of Kentucky and Puerto Rico, and any other state or territory of the United States that later joins this Action as a Plaintiff.

99. The term “**Preferred Deal Transaction**” shall mean a Programmatic Direct Transaction where the Inventory is not guaranteed. For the avoidance of doubt, the mere fact that the Impression associated with a Direct Transaction was served by, or that information with respect to such transaction was entered into, a Publisher Ad Server shall not be sufficient to render such transaction a Preferred Deal Transaction.

100. The term “**Private Auction Transaction**” shall mean an Indirect Transaction for which only a set of Buyers expressly identified by the Publisher (or an agent or employee thereof) are or were eligible to submit Bids.

101. The term “**Programmatic Direct Transaction**” shall mean a Direct Transaction (other than a Publisher-Automated Transaction) that is or was negotiated, transacted, or finalized through an Ad Tech Product, provided that, for the avoidance of doubt, the mere fact that the Impression associated with a Direct Transaction was served by, or that information with respect to such transaction was entered into, a Publisher Ad Server shall not be sufficient to render such transaction a Programmatic Direct Transaction if such transaction was not otherwise negotiated through such Publisher Ad Server.

102. The term **“Programmatic Guaranteed Transaction”** shall mean a Programmatic Direct Transaction where the Inventory is guaranteed. For the avoidance of doubt, the mere fact that the Impression associated with a Direct Transaction was served by, or that information with respect to such transaction was entered into, a Publisher Ad Server shall not be sufficient to render such transaction a Programmatic Guaranteed Transaction.

103. The term **“Programmatic Transaction”** shall mean a Display Advertising transaction, other than a Publisher-Automated Transaction, that is or was negotiated, transacted, or finalized through Ad Tech Products.

104. The term **“Property”** shall mean a website, mobile application, or other product or service containing space that is sold or offered for sale for the placement of Display Advertising.

105. The term **“Publisher”** shall mean a person or entity operating a Property. For the avoidance of doubt, the owner of the Property shall be deemed the Publisher, even if it has out-sourced the sale of its associated Inventory, in whole or in part, to a third party.

106. The term **“Publisher Ad Server”** shall mean a third-party or In-House product, service, or system that is responsible for selecting (or attempting to select), on behalf of a Publisher, the Display Advertisement (or source from which such Display Advertisement shall be obtained) for a unit of Inventory. For the avoidance of doubt, a Publisher Ad Server may be owned and/or operated by a third-party Ad Tech Provider, or may be owned, developed, or operated by the Publisher or by a third party on behalf of or under contract with the Publisher. For the further avoidance of doubt, a system that creates or manages mediation chains constitutes a Publisher Ad Server for purposes of this Subpoena.

107. The term **“Publisher-Automated Transaction”** shall mean a Direct Transaction that is or was negotiated, transacted, or finalized through one or more automated services, whether or not auction-based, that is controlled by the Publisher or an affiliate thereof

(other than an Ad Network, Ad Exchange, or SSP). This would include, for example, the Publisher's self-service website for Advertisers to create Campaigns or place advertisements, such as that described at <https://facebook.com/business/ads>. For the avoidance of doubt, the mere fact that the Impression associated with a Direct Transaction was served by, or that information with respect to such transaction was entered into, a Publisher Ad Server (including one operated by the Publisher) shall not be sufficient to render such transaction a Publisher-Automated Transaction.

108. The term **"Publisher Partner"** shall mean a person, firm, association, or other entity that sells Display Advertising on behalf of Publishers, other than Publisher Ad Servers, Ad Exchanges, and Ad Networks.

109. The term **"Purchase,"** when used in connection with Inventory or Impressions, shall mean to obtain, directly or indirectly through one or more intermediaries, the right to render or display a Display Advertisement in a unit of Inventory, typically but not necessarily in exchange for a monetary payment.

110. The term **"Query"** shall mean a request to provide, or Bid to provide, a Display Advertisement to be rendered in a unit of Inventory, whether denominated as an "ad request," "bid request," or otherwise. A Query may, but need not, request a Bid that will be considered before awarding the right to actually display a Display Advertisement to a particular Advertiser.

111. The term **"Query Throttling"** shall mean any mechanism that limits how many Queries are sent to an Ad Buying Tool or how many Queries an Ad Buying Tool receives.

112. The term **"reflecting"** shall mean illustrating or describing.

113. The term **"Relevant Period"** shall mean January 1, 2013 to present.

114. The term **"Remarketing Campaign"** shall mean one or more Display Advertisements that are targeted to particular Users in whole or substantially in part based on their prior visits to or behavior on a Property.

115. The terms “**Reserve Price Optimization**” or “**Optimized Pricing**” shall mean the Google product or Feature, or any past iteration of the product or Feature, that dynamically changed the Floor Prices for each Query using historical Bid data in AdX or GAM auctions of Inventory.

116. The term “**Search+**” shall mean the Google Feature that enables advertisers to use their Search Advertising budgets to purchase Display Advertisements.

117. The term “**Search Advertising**” shall mean Online Advertising that is displayed in response to a User’s search intent or search terms.

118. The terms “**Self-Competition**” or “**Bid Duplication**” shall mean a situation in which Bids from the same Campaign, same Advertiser, or same Ad Buying Tool compete against each other in the same auction or same chain of auctions.

119. The term “**Server-Side Header Bidding**” shall mean an implementation of Header Bidding in which the Queries are sent, and responsive Bids are evaluated, by code running on a server (even if such server code is invoked from a call from the User’s web browser).

120. The term “**Static Advertising**” shall mean Online Advertising consisting solely of static (i.e., non-moving or -changing) text, images, or graphics.

121. The term “**Supply Path Optimization**” shall mean practices of Ad Tech Products that connect Advertisers with Publishers’ Inventory in the most efficient manner (for example, buying Inventory in a way that reduces the number of Ad Tech Products required for the transaction).

122. The term “**Take Rate**” shall mean the proportion of total revenue generated from Purchased Inventory that an Ad Tech Provider collects as part of its fee arrangement in connection with the Purchased Inventory.

123. The term **“Targeting Type”** shall mean the criteria upon which an ad is displayed to specific audiences of Users, or in the context of specific content (including but not limited to keywords and topics). Examples of audience targeting include but are not limited to demographic targeting, remarketing, life events, or affinity.

124. The term **“Third-Party Cookie”** shall mean a browser cookie created and stored by a domain other than the domain to which the User navigated.

125. The term **“Transaction Type”** shall mean Programmatic Guaranteed Transaction, Preferred Deal Transaction, Publisher-Automated Transaction, Other Direct Transaction, Open Auction Transaction, Private Auction Transaction, or Other Indirect Transaction.

126. The term **“Unified First Price Auction”** shall mean the process, effective beginning September 10, 2019, by which Google Ad Manager determines which Advertiser’s Display Advertisement to display to a User based on the highest actual or estimated price for a unit of Inventory and subject to a Publisher’s defined constraints.

127. The term **“User”** shall mean an end user visiting or using a Property, or a proxy for that end user (including, but not limited to, cookie identifiers or mobile ad identifiers).

128. The term **“Value of Media”** shall mean the total US dollar value (or the fair market value, if the Impressions are not provided on a monetary basis) of the Inventory Purchased net of any and all fees paid.

129. The term **“Winning Bid”** shall mean the Bid in an auction that ultimately succeeded in Purchasing the relevant Inventory.

130. The terms **“You”** or **“Your”** refer to Yelp, Inc., its parents, predecessors, successors, divisions, subsidiaries, affiliates, partnerships and joint ventures, and all directors, officers, employees, agents, and representatives of the foregoing.

REQUESTS FOR DOCUMENTS

1. For each Publisher Ad Server that You operate or have operated, data sufficient to show, for each month since January 1, 2013, for all Display Advertising Impressions served by such Publisher Ad Server in which the resulting Impressions were shown to Users believed to be located in the United States (or where the Users' locations were ambiguous or unknown), the monthly (i) total Queries sent by such Publisher Ad Server; (ii) total Impressions served; (iii) total Attributed Clicks (or Clicks, if Attributed Clicks are not known) for such Impressions; (iv) total Buyer Payments made for such Impressions; (v) total payments made by You to Publishers for such Impressions; (vi) total Express Fees collected by Your Ad Server in connection with such Impressions; and (vii) total Fees collected by Your Ad Server in connection with such Impressions – all aggregated at a monthly level, separately for each unique combination of the following parameters:

- a. Publisher Ad Server that You operate or operated at any point since January 1, 2013;
- b. Publisher;
- c. SSP or Ad Exchange to which You sent the Query that directly or indirectly generated the winning Bid (where applicable);
- d. Bidder (e.g. an Ad Buying Tool or Advertiser bidding directly onto such SSP/Ad Exchange) with the Winning Bid for each Impression (where applicable);
- e. Advertiser (if known);
- f. Transaction Type through which the Impressions were purchased;
- g. Format of the Impressions;
- h. Environment on which the Impressions were displayed;
- i. Cost Type;

- j. whether the Impressions were displayed on social media;
- k. whether Header Bidding was used in connection with the Impressions; and
- l. The SSP or Ad Exchange that won, if the winning bid was achieved as the result of Header Bidding.

An example of a sufficient response to this request is attached as Exhibit B to this Subpoena.

2. For each Advertiser, Publisher, Ad Buying Tool, and Ad Selling Tool referenced in Your response to the preceding specification(s), whether by an identifier or otherwise, documents sufficient to identify such Advertiser, Publisher, Ad Buying Tool, and Ad Selling Tool.

3. Documents and data sufficient to show, on a monthly basis for each month since January 2013, and separately for each Ad Selling Tool involved in selling any of Your Inventory, (a) total Fees received by each Ad Selling Tool; and (b) total Net Revenue that You received. Data and documents produced in response to this Request shall be limited to information pertaining to transactions taking place in the United States. For any data and documents which You are unable to restrict by geography (for example, the geography is ambiguous or unknown), such data and documents shall be treated as responsive to this Request.

4. Documents sufficient to show the pricing, Features, and customer base of each of Your Ad Tech Products.

5. Documents and data sufficient to show for all Display Advertising shown on Your Properties in the Relevant Period, the (i) total Bids received, (ii) total Impressions, (iii) total Clicks generated, and (iv) total Gross Revenue earned – all aggregated (at a monthly level for each month since January 1, 2013) separately for each unique combination of parameters set forth below:

- a. the Property on which the Impressions were displayed;
- b. the Advertiser for the Impressions;
- c. the Ad Buying Tool used to purchase the Impressions;
- d. the Cost Type that was specified for sale of the Impressions;
- e. the Format of the Impressions; and
- f. the Environment in which the Impressions were displayed.

An example of a sufficient response to this request is attached as Exhibit C. Documents and data produced in response to this Request shall be limited to the United States. For any data and documents which You are unable to restrict by geography (for example, the geography is ambiguous or unknown), such data and documents shall be treated as responsive to this Request.

6. Documents sufficient to show Your strategic plans, all executive presentations, and all financial statements relating to Display Advertising.

7. Documents analyzing the competition You face with respect to your Ad Tech Products, including documents analyzing the Features and effectiveness of other Ad Tech Providers or Ad Tech Products (including In-House Ad Tech Products), market size and shares, competitor entry and expansion, pricing, network effects, and Your competition with Google.

8. Documents sufficient to show Your consideration, evaluation, or use of any actual or potential In-House Ad Tech Products You have developed, purchased, or considered developing or purchasing, including (a) any comparison of Your In-House Ad Tech Products with third-party Ad Tech Products; (b) Your rationale for developing, or purchasing, or considering developing or purchasing such In-House Ad Tech Products instead of sourcing them from third parties; and (c) the time, costs, and resources required to switch to In-House Ad Tech Products from third-party Ad Tech Products, or vice versa.

9. Documents sufficient to show the costs and benefits associated with Your actual or considered switching, in whole or in part, from third party Ad Tech Providers to the development of your own In-House Ad Tech Products, including the actual or potential impact of switching on Your revenue from Display Advertising.

10. Documents sufficient to show Your analyses of Advertiser satisfaction and/or retention (i.e., churn), including Your wins and losses of Advertiser accounts, spending or sales; Advertisers' response to changes in Your Fees or the cost-effectiveness of their Display Advertising while using Your Ad Tech Product(s); actual or perceived differences between Advertisers that use Your Ad Tech Product(s) and Advertisers that use Your competitors' Ad Tech Product(s); and Advertisers' compliments and complaints regarding Your Ad Tech Product(s).

11. Documents sufficient to show how You promote or market Your Properties to Advertisers, including how you promote any of their benefits or advantages related to access to Inventory, return on investment, Brand Protection, fraudulent inventory (including Domain Spoofing), ability to switch between ad Formats; and proprietary ad Formats.

12. Documents sufficient to show the development, launch, and licensing of Your Ad Tech Products, including the platform You developed with Kevel's Application Programming Interface ("API").

13. Documents sufficient to show the integration or interoperability between Your Ad Tech Products, including the platform You developed with Kevel's API, and other Ad Tech Products.

14. Documents sufficient to show investments You have made in and revenues generated by Your Ad Tech Products, including the platform You developed with Kevel's API.

15. Documents comparing the Edmunds.com ad serving platform You developed with Kevel's API to other Ad Tech Products.

16. Documents sufficient to show Your use of Google's Ad Exchange without Google's Publisher Ad Server, or Your use of Google's Publisher Ad Server without Google's Ad Exchange, including Your use of Google Ad Connector, AdX Direct tags, or Google publisher tags.

17. Documents sufficient to show Your evaluation of and decision to use, refrain from using, or change your use of Header Bidding or any specific Header Bidding Provider.

18. Documents sufficient to show Your contracts or agreements with Kevel, amounts You paid to Kevel, and products and services You received from Kevel.

19. All documents concerning any formal or informal governmental investigation or litigation concerning Google's Display Advertising or Google's Ad Tech Products, including all documents concerning the multidistrict litigation captioned *In re Google Digital Advertising Antitrust Litigation*, No. 1:21-md-03010 (S.D.N.Y.), all communications involving You and any governmental agency, all documents that You provided to any governmental agency, all documents You produced in the above-referenced litigation.

Exhibit B

ILLUSTRATIVE EXAMPLES OF DATA DEEMED SUFFICIENT TO RESPOND TO REQUEST NO. 1 IN EXHIBIT A TO THE SUBPOENA

Month	(a) Publisher Ad Server that You Operate	(b) Publisher	(c) SSP or Ad Exchange to which You sent the Query	(d) Bidder with the Winning Bid	(e) Advertiser	(f) Transaction Type	(g) Format	(h) Environment	(i) Cost Type	(j) Whether Impression Displayed on Social Media	(k) Whether Header Bidding was Used in Connection with the Impression	(l) The SSP or Ad Exchange That Won, if the Winning Bid was a Result of Header Bidding	(i) Total Queries Sent	(ii) Total Impressions Served	(iii) Total Attributed Clicks	(iv) Total Buyer Payments	(v) Total Payments You Made to Publishers	(vi) Total Express Fees Collected	(vii) Total Fees Collected
Jan-21	Xandr Ad Server	Disney	AdX	DV360	Nike	Programmatic Guaranteed	Instream Video	CTV	CPM	0	0	NULL		722,000	NULL	\$920	\$920	\$2.50	NULL
Jan-21	Xandr Ad Server	News Corp	Index Exchange	Criteo	The Home Depot	Private Auction	Static	Desktop Web	CPC	0	0	NULL		111,000	1,200	\$1,230	\$1,230	\$0.89	NULL
Jan-21	Xandr Ad Server	Snapchat	AdMob	The Trade Desk	Ford	Open Auction	Native	Mobile App	CPM	1	0	NULL		985,000	NULL	\$3,544	\$3,544	\$3.30	NULL
Jan-21	Xandr Ad Server	WSJ	Pubmatic	DV360	NBC Universal	Open Auction	Static	Mobile Web	CPC	0	0	NULL		1,153,000	760	\$3,022	\$3,022	\$4.00	NULL
Jan-21	Xandr Ad Server	NY Times	OpenX	The Trade Desk	Spotify	Private Auction	Native	Mobile App	CPA	0	1	OpenX		388,000	2,200	\$2,600	\$2,600	\$1.20	NULL
Feb-21	Xandr Ad Server	News Corp	AdX	DV360	Nike	Open Auction	Outstream Video	Desktop Web	CPM	0	0	NULL		797,000	NULL	\$1,985	\$1,985	\$2.60	NULL
Feb-21	Xandr Ad Server	USA Today	Xandr	Criteo	The Home Depot	Open Auction	Static	Desktop Web	CPC	0	0	NULL		499,000	1,466	\$1,645	\$1,645	\$1.65	NULL
Feb-21	Xandr Ad Server	NY Times	AdMob	The Trade Desk	Ford	Private Auction	Outstream Video	Mobile App	CPM	0	0	NULL		1,250,000	NULL	\$1,800	\$1,800	\$4.25	NULL
Feb-21	Xandr Ad Server	Conde Nast	Magnite	DV360	NBC Universal	Other Indirect Programmatic Guaranteed	Instream Video	Mobile Web	CPM	0	1	Magnite		945,000	NULL	\$850	\$850	\$3.10	NULL
Feb-21	Xandr Ad Server	Disney	AdX	The Trade Desk	Spotify	Programmatic Guaranteed	Static	CTV	CPM	0	0	NULL		777,000	NULL	\$985	\$985	\$2.55	NULL

Exhibit C

EXHIBIT C**ILLUSTRATIVE EXAMPLES OF DATA DEEMED SUFFICIENT TO RESPOND TO REQUESTS NO. 5 IN EXHIBIT A TO THE SUBPOENA**

Month	(a) Property	(b) Advertiser	(c) Ad Buying Tool	(d) Format	(e) Environment	(f) Cost Type	(i) Total Bids Received	(ii) Total Impressions	(iii) Total Clicks Generated	(iv) Total Gross Revenue
Jan-21	Facebook	Nike	Facebook Ads Manager	Native	Mobile Web	CPM	645,000	495,000	NULL	\$1,000
Jan-21	Instagram	The Home Depot	Facebook Ads Manager	Native	Desktop Web	CPM	880,000	650,000	NULL	\$700
Jan-21	Facebook	Target	Facebook Ads Manager	Outstream Video	Mobile App	CPC	750,000	700,000	500	\$900
Jan-21	Facebook	Hasbro	Facebook Ads Manager	Outstream Video	Mobile App	CPC	550000	510,000	1,440	\$770
Jan-21	Instagram	Mars Inc.	Facebook Ads Manager	Outstream Video	Mobile App	CPA	910000	820,000	1,200	\$1,300
Feb-21	Facebook	Ford	Facebook Ads Manager	Static Advertising	Desktop Web	CPM	722,000	600,000	NULL	\$1,250
Feb-21	Instagram	Delta	Facebook Ads Manager	Outstream Video	Mobile App	CPC	245,000	220,000	900	\$700
Feb-21	Facebook	The Home Depot	Facebook Ads Manager	Static Advertising	Mobile App	CPM	1,100,000	850,000	NULL	\$1,500
Feb-21	Facebook	Target	Facebook Ads Manager	Native	Mobile App	CPM	285000	233,000	NULL	\$180
Feb-21	Instagram	The Home Depot	Facebook Ads Manager	Native	Desktop Web	CPM	622000	561,000	NULL	\$200

**THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF VIRGINIA
Alexandria Division**

UNITED STATES OF AMERICA, <i>et al.</i> ,)	
)	
<i>Plaintiffs,</i>)	
)	
v.)	Civil Action No.: 1:23-CV-00108-LMB-JFA
)	
GOOGLE LLC,)	
)	
<i>Defendant.</i>)	
)	

MODIFIED PROTECTIVE ORDER

In the interests of: (i) ensuring efficient and prompt resolution of this Action;
(ii) facilitating discovery by the Parties litigating this Action; and (iii) protecting certain information from improper disclosure or use, the Court enters the following Protective Order, as defined below in Paragraph 1(a). Unless otherwise specified, days will be computed according to Federal Rule of Civil Procedure 6(a).

The Court, upon good cause shown and pursuant to Fed. R. Civ. P. 26(c)(1), ORDERS as follows:

Definitions

1. As used herein:

(a) “Action” means the action filed in this Court under the caption *United States, et al. v. Google LLC*, 1:23-cv-00108-LMB-JFA, as well as any additional actions subsequently transferred and/or centralized with this Action, including any related discovery, pretrial, trial, post-trial, or appellate proceedings. For the avoidance of doubt,

“Action” excludes pre-Complaint investigations by one or more Plaintiffs into potential anticompetitive conduct by the Defendant.

(b) “Confidential Information” or “Confidential” means information (regardless of how it is generated, stored or maintained) or tangible things that constitute a trade secret or other non-public confidential financial, technical, research, sales, marketing, development, or commercial information and that have been so designated, or any Document, transcript, or other material containing such information that has not been published or otherwise made publicly available.¹ In addition, a Designating Party may designate as Confidential any information or items made publicly available in violation of a court order to keep such information confidential, that the Designating Party believes should receive Confidential treatment. Confidential Information includes (i) information copied or extracted, summarized or compiled from Confidential Information, and (ii) testimony, conversations, or presentations by Parties or their Counsel that reveal Confidential Information.

(c) “Competitive Decision-Making” means the action or process of making a business decision or resolving a non-legal question relating to a competitor, potential competitor, customer, or distribution partner regarding contracts, marketing, pricing, product, service development or design, product, or service offering, research and development, mergers and acquisitions, or licensing, acquisition, funding, or enforcement of intellectual property. It does not include legal advice provided in connection with litigation, potential litigation, or regulatory matters, nor does it include work performed as part of a trial team or to keep management advised on the progress or status of litigation, potential

¹ For the avoidance of doubt, the Receiving Party’s belief that material designated as Confidential does not meet this standard shall not deprive such material of the protections afforded to Confidential Information. Any challenge to a designation is subject to Paragraph 13.

litigation, or regulatory matters.

(d) “Defendant” means Google LLC, as well as its parents, divisions, subsidiaries, affiliates, partnerships and joint ventures, and all directors, officers, employees, agents (including counsel), and representatives of the foregoing.

(e) “Designated In-House Counsel” means In-House Counsel designated by Defendant who may be authorized to access Highly Confidential Information pursuant to Paragraph 19 of this Order.

(f) “Disclosed” means shown, divulged, revealed, produced, described, transmitted or otherwise communicated, in whole or in part.

(g) “Document” means any document or electronically stored information, as the term is used in Fed. R. Civ. P. 34(a).

(h) “Highly Confidential Information” or “Highly Confidential,” as defined herein, is information that, if disclosed publicly or to a Party, is likely to cause the Producing Party material and significant competitive or commercial harm, and that has been so designated.² Subject to the foregoing, Highly Confidential Information may include trade secrets, including algorithms and Source Code; non-public, commercially sensitive customer lists; non-public financial, marketing, or strategic business planning information; current or future non-public information regarding prices, costs, or margins; information relating to research, development testing of, or plans for existing or proposed future products; evaluation of the strengths and vulnerabilities of a Protected Person’s product offerings, including non-public pricing and cost information; confidential contractual terms, proposed contractual terms, or

² For the avoidance of doubt, the Receiving Party’s belief that material designated as Highly Confidential does not meet this standard shall not deprive such material of the protections afforded to Highly Confidential Information. Any challenge to a designation is subject to Paragraph 13.

negotiating positions (including internal deliberations about negotiating positions); information relating to pending or abandoned patent applications that have not been made available to the public; personnel files; sensitive personally identifiable information; and communications that disclose any Highly Confidential Information. Highly Confidential Information includes (i) information copied or extracted, summarized or compiled from Highly Confidential Information, and (ii) testimony, conversations, or presentations by Parties or their Counsel that would reveal Highly Confidential Information. A Designating Party may designate as Highly Confidential any information or items made publicly available in violation of a court order to keep such information confidential, that the Designating Party believes should receive Highly Confidential treatment. In addition, if a Protected Person (i) has produced Investigation Materials or (ii) is required by subpoena or court order to produce information that would cause it material and significant competitive or commercial harm, but that information does not specifically fall into one of the categories of information listed in this paragraph, upon a compelling showing, it may seek a court order that such information is Highly Confidential. If a motion is made pursuant to this paragraph and is related to a subpoena or court order, it must be filed no later than the due date to respond to the subpoena or court order. If a Protected Person seeks additional protection pursuant to this paragraph from the Court, the materials for which additional protection has been sought will not be provided to other Persons, aside from outside counsel, until the Court has ruled.

(i) “In-House Counsel” means any lawyer employed by the Defendant as well as any paralegals, administrative assistants, and clerical and administrative personnel supervised by that lawyer and employed by the Defendant. In-House Counsel, however, does not include: 1) attorneys employed by the Plaintiffs; or 2) Outside Counsel.

(j) “Investigation” means any pre-complaint inquiry by one or more Plaintiffs into potential anticompetitive conduct by the Defendant related to open web display advertising.

(k) “Investigation Material” means non-privileged documents, testimony or other materials that: (i) any Non-Party provided to any Party, either voluntarily or under compulsory process, relating to the Investigation; (ii) constitute any communication between any Party and any Non-Party in connection with and during the Investigation; (iii) any Party provided to any Non-Party relating to the Investigation; and/or (iv) a Defendant, or affiliated person or entity, provided to a Plaintiff relating to the Investigation. For the avoidance of doubt, the Investigation Materials are governed by the terms of this Order. To the extent that any Investigation Materials are clawed back for any reason, the procedures set forth at Paragraph 12 of this Order shall apply and, as to Plaintiffs, such procedures will supersede any other applicable clawback procedures governing the Investigation Materials. Investigation Materials shall be designated as Highly Confidential by default.

(l) “Litigation Materials” means non-privileged documents, testimony, or other materials that: (i) any Non-Party provides to any Party, either voluntarily or under compulsory process, in connection with and during the pendency of the Action; (ii) constitute any communication between any Party and any Non-Party in connection with and during the pendency of the Action; (iii) Defendant provides to any Plaintiff in connection with and during the pendency of any of the Action; (iv) any Plaintiff provides to Defendant in connection with and during the pendency of the Action; (v) the Department of Justice provides to any federal governmental agency in connection with and during the pendency of this Action; and/or (vi) any federal governmental agency provides to the Department of

Justice in connection with and during the pendency of this Action.

(m) “Non-Party” means any natural person, partnership, corporation, association, or other legal entity not named as a Party in the Action.

(n) “Outside Counsel” means the attorneys employed by outside law firms who are retained to represent or advise a Party, as well as any paralegals, administrative assistants, and clerical and administrative personnel supervised by those lawyers and employed by those Outside Counsel. To the extent any Outside Counsel has not filed an appearance in the Action (“Non-Appearing Law Firm”), a Party shall notify the other Parties of the name of the Non-Appearing Law Firm at least seven days before any attorneys of the Non-Appearing Law Firm obtain access to any Investigation Materials and/or Litigation Materials. Attorneys of the Non-Appearing Law Firm who are given access to Investigation Material and/or Litigation Material, shall first complete and execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto.

(o) “Party” means any Plaintiff or Defendant in the Action, and in the case of each State Plaintiff, means the Attorney General’s Office of such State Plaintiff. “Parties” collectively means all Plaintiffs and Defendant in the Action.³

(p) “Plaintiffs” means the Plaintiffs in the Action, including all of their employees, agents, and representatives.

(q) “Plaintiffs’ Counsel” includes: (i) any employee of the Antitrust Division of the U.S. Department of Justice who is assigned to work on this Action and/or any

³ For purposes of this Protective Order, the term “Party” shall be construed in a manner consistent with the Court’s ruling on the Joint Proposed Discovery Plan. Dkt. 94.

employee of the U.S. Department of Justice who is responsible for supervising work related to this Action; and (ii) any employee of a State Plaintiffs' Attorney General's Office (including retained attorneys and contract attorneys). For the avoidance of doubt, "employee" as used in this sub-paragraph includes, but is not limited to, attorneys, paralegals, economists, administrative assistants, IT and support staff, and clerical and administrative personnel;

(r) "Person" means any natural person, corporate entity, business entity, partnership, association, joint venture, governmental entity, or trust.

(s) "Producing Party" means a Party who produced or produces Investigation Material, Litigation Material, or Source Code.

(t) "Protected Person" means any Person (including a Party or a Non-Party) that either voluntarily or under compulsory process, has provided or provides: (i) Investigation Materials, (ii) Litigation Materials; or (iii) Source Code.

(u) "Receiving Party" means a Party who received Investigation Material, Litigation Material, or Source Code.

(v) "Source Code" means extremely sensitive information or items representing computer code and associated comments and revision histories, formulas, engineering specifications, or schematics that define or otherwise describe in detail the algorithms or structure of software or hardware designs, disclosure of which to another Party or Non-Party would create a substantial risk of serious harm that could not be avoided by less restrictive means. To the extent production of Source Code becomes necessary in this case, a Party who produces Source Code may designate it as "Highly Confidential - Source Code." The protocols for Defendant's production of Source Code, and the review of such Source Code,

appear in Appendix B to this Order.

(w) “State Plaintiffs” means the States of California, Colorado, Connecticut, New Jersey, New York, Rhode Island, and Tennessee, and the Commonwealth of Virginia, and any other state that joins the Action, by and through their respective Attorneys General.

(x) “State Plaintiffs’ Counsel” means attorneys employed by the State Plaintiffs’ Attorney General’s Office (including retained attorneys and contract attorneys).

Designation of Highly Confidential Information and Confidential Information

2. Within two business days of the Court’s entry of this Order, each Party shall send by email, facsimile, or overnight delivery a copy of this Order to any Non-Party Protected Person (or, if represented by counsel, the Non-Party Protected Person’s counsel) that provided Investigation Materials to that Party.

3. **Production of Investigation Materials Originating from a Non-Party.** If a non-Party Protected Person determines that this Order does not adequately protect its Confidential Information, it may, within seven days after receipt of a copy of this Order, seek additional protection from the Court for its Confidential information. If a non-Party Protected Person timely seeks additional protection from the Court, the Party’s obligation to produce that non-Party Protected Person’s documents containing Confidential Information, that is the subject of the motion, is suspended until a decision is rendered by the Court. If the Court orders the production of the non-Party’s documents, the Party will have seven days to make the production unless a longer period is ordered by the Court.

4. **Designation of Investigation Materials as Confidential or Highly Confidential by Protected Persons.** To the extent a Protected Person has already designated Investigation

Materials as Confidential or Highly Confidential, those materials shall retain those existing designations, subject to any later challenge by a Party. To the extent that Investigation Materials are reproduced in the Action, all protections afforded to Litigation Materials pursuant to this Order shall apply.

5. The identity of a Non-Party submitting Highly Confidential Information or Confidential Information shall also be treated as Highly Confidential Information or Confidential Information for the purposes of this Order where the submitter has requested such confidential treatment.

6. Any production of documents or testimony not designated as Confidential or Highly Confidential Information will not be deemed a waiver of any future claim of confidentiality concerning such information if it is subsequently designated as Confidential or Highly Confidential Information. If at any time before trial of this Action, a Protected Person realizes that it should have designated as Confidential or Highly Confidential Information any Investigation Materials, Litigation Materials, or Source Code that Person previously produced, it may so designate such Documents, testimony, or other materials by notifying the Parties in writing, and, to the extent the new designations relate to Documents, an overlay file with the new designations shall also be provided in accordance with Paragraph 7(g). The Parties shall thereafter treat the Investigation Materials, Litigation Materials, or Source Code pursuant to the Protected Person's new designation under the terms of this Order. However, the disclosure of any information for which disclosure was proper when made will not be deemed improper regardless of any such subsequent confidentiality designation.

7. Designation of Litigation Materials as Highly Confidential or Confidential by Protected Persons. The following procedures govern the process for Protected Persons to

designate as Highly Confidential or Confidential any information that they disclose in this Action, including, but not limited to, information in response to requests under Fed. R. Civ. P. 30, 31, 33, 36, and 45, and Documents disclosed in response to Fed. R. Civ. P. 33(d), 34(b)(2) and (c), or 45:

(a) Indiscriminate designations are prohibited.

(b) **Testimony.** All transcripts of depositions taken in the Action after entry of this Order will be treated as Highly Confidential Information in their entirety for 45 days after the date of the deposition, or until 5 days before trial, whichever date is earlier. Parties will be responsible for obtaining the deposition transcript for any Party deponents. For Non-Party deponents, if requested by the Non-Party deponent, the Party who noticed the deposition shall, within 5 business days of being provided a final transcript (subject to any errata) of the deposition (or as soon as reasonably possible after the request is made), provide the final transcript (subject to any errata) to the Non-Party deponent (or the Non-Party deponent's counsel, if applicable).

Within 45 days following the date of the deposition, the deponent, whether a Non-Party or a Party, may designate, subject to the provisions of this Order, Highly Confidential Information or Confidential Information any portion of the deposition transcript, by page(s) and line(s), and any deposition exhibits provided by the deponent or the deponent's employer or its affiliates, or containing the Highly Confidential Information or Confidential Information of the deponent or the deponent's employer or its affiliates (regardless of who provided or produced the Document). To be effective, such designations must be provided in writing to all Parties. All transcripts of depositions taken in this Action after entry of this Order will be treated as Highly Confidential Information in their entirety until the deadline for the

deponent to designate portions of the transcript as Highly Confidential Information has expired. Further, to the extent that a Party's Highly Confidential or Confidential Documents were utilized in the deposition, that Producing Party also has 45 days following the date of the deposition to designate any portion of the deposition testimony as Highly Confidential or Confidential to the extent the deposition testimony discloses or relates to Highly Confidential or Confidential Documents used at the deposition. To be effective, such designations must be provided in writing to all Parties' counsel.

When a Party is entitled under this Order to question a deponent about a Document or information that has been designated by a Non-Party as Highly Confidential or Confidential, and such Non-Party is not in attendance at the deposition, the Party that asked such questions shall designate as Highly Confidential or Confidential the portion of the transcript relating to such Highly Confidential or Confidential Document or information within 45 days following the date of the deposition.

(c) **Documents.** A Protected Person who designates as Highly Confidential Information any Document that it produced in this Action must stamp or otherwise mark each Document containing said information with the designation "HIGHLY CONFIDENTIAL" in a manner that will not interfere with legibility, including page numbering, or audibility unless such Document is produced in native electronic format. A Protected Person who designates as Confidential Information any Document that it produced in this Action must stamp or otherwise mark each Document containing said information with the designation "CONFIDENTIAL" in a manner that will not interfere with legibility, including page numbering, or audibility. Any Document that contains Confidential Information or Highly Confidential Information may be so designated in its entirety. To the extent a Document is

produced in native form, such Documents shall be produced in accordance with Paragraph 7(d) below.

(d) **Electronic Documents and Data.** Where a Protected Person produces Confidential or Highly Confidential Information contained in electronic files and Documents in native electronic format, such electronic files and Documents shall be designated by the Protected Person for protection under this Order by appending to the file names or designators' information indicating whether the file contains Highly Confidential Information or Confidential Information, or by any other reasonable method for appropriately designating such information produced in electronic format, including by including a slip sheet associated with the electronic file or by making such designations in reasonably accessible metadata associated with the files. Where Highly Confidential Information or Confidential Information is produced in electronic format on a disk or other medium that contains exclusively confidential information, the "HIGHLY CONFIDENTIAL" or "CONFIDENTIAL" designation may be placed on the disk or other medium. When electronic files or Documents in native form are printed for use at a deposition, in a court proceeding, or for provision in printed form to any person who may receive such files in accordance with this Order, the Party printing the electronic files or Documents shall include the slip sheet identifying the electronic file or Document as "HIGHLY CONFIDENTIAL" or "CONFIDENTIAL" along with the production number or Bates number and designation associated with the native file, or shall affix a legend to the printed Document saying "HIGHLY CONFIDENTIAL" or "CONFIDENTIAL" and include the production number or Bates number and designation associated with the native file.

(e) Upward Designation of Litigation Materials Produced by Other Parties or Non-

Parties. A Protected Person may upward designate (i.e., change any Litigation Materials produced without a designation to a designation of “Confidential” or “Highly Confidential” or designate any Litigation Materials produced as “Confidential” to a designation of “Highly Confidential”) any Litigation Materials produced by another Protected Person, provided that said Litigation Materials contains the upward designating Protected Person’s own Confidential Information or Highly Confidential Information.

(f) Upward designation shall be accomplished by providing written notice to the Parties and the relevant disclosing Protected Person identifying the Litigation Materials to be re- designated within 120 days from the date of the production containing the materials the Protected Person seeks to upwardly designate, or 30 days prior to trial in the Action, whichever is earlier. Such notice must identify (by Bates number, or in the event there is no Bates number, by other individually identifiable information) each Document the Protected Person wishes to upward designate, and include an explanation as to why the Protected Person wishes to upward designate such Documents, and why the existing confidentiality designation is insufficient. The Protected Person shall also provide an overlay file reflecting the new designations in accordance with Paragraph 7(g). Failure to upward designate within 120 days, alone, will not prevent a Protected Person from obtaining the agreement of the disclosing Protected Person to upward designate certain Litigation Materials or from moving the Court for such relief. Any Party may object to the upward designation of Litigation Materials pursuant to the procedures set forth in Paragraph 13 regarding challenging designations.

(g) **Overlay Files.** To the extent this Order requires a Protected Person to provide an overlay file in connection with a new or altered confidentiality designation, that Protected Person shall have five business days from the date of the changed designation to produce an

overlay file. In the interim, the Parties shall take care to treat the Documents at issue as if the new designation applies. For the avoidance of doubt, a Party does not violate this provision where it in good faith attempts to comply with the new designation.

8. In the event that a Party is required to produce Documents designated by a Non-Party as Confidential or Highly Confidential Information, then the Party shall:

(a) promptly notify in writing the Party seeking the Highly Confidential Information or Confidential Information that some or all of the information requested is subject to a protective order;

(b) promptly notify the Non-Party that its Highly Confidential Information or Confidential Information is being requested and make the information requested available for inspection by the Non-Party or Party; and

(c) promptly provide the Non-Party with a copy of this Order, the relevant discovery request(s), and a reasonably specific description of the information requested.

The purpose of this provision is to alert a Party to the existence of confidentiality rights of a Non-Party and to afford the Non-Party an opportunity to protect its confidentiality interests in this Court.

9. If the Non-Party or Party fails to object or seek a protective order from this Court within 14 days of receiving the notice and accompanying information, the Non-Party or Party's Highly Confidential Information or Confidential Information responsive to the discovery request may be produced. If the Non-Party or Party timely seeks a protective order, its Highly Confidential Information or Confidential Information shall not be produced before a determination by the Court. Absent an order to the contrary, the Non-Party or Party shall bear the burden and expense of seeking protection in this Court of its Highly Confidential

Information or Confidential Information. The terms of this Order are applicable to information produced by a Non-Party or Party in the Action and designated as Highly Confidential Information or Confidential Information. Such information produced by Non-Parties or Parties in connection with this Action is protected by the remedies and relief provided by this Order. Nothing in these provisions should be construed as prohibiting a Non-Party or Party from seeking additional protections.

10. Unauthorized disclosure of Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code. In the event of a disclosure of any Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code to any person(s) not authorized to receive such disclosure under this Order, the Party who discovers such unauthorized disclosure shall: (a) promptly notify the Protected Person whose material has been disclosed and provide to such Protected Person all known relevant information concerning the nature and circumstances of the disclosure. If it is readily discernible which Party is responsible for the disclosure, the disclosing Party shall also promptly take all reasonable measures to retrieve the improperly disclosed material and to ensure that no further unauthorized disclosure and/or use thereof is made; (b) inform the Person(s) to whom unauthorized disclosure was made of all the terms of this Order; and (c) request such Person(s) execute the Agreement Concerning Confidentiality in the form of Appendix A attached hereto. If it is not readily discernible which Party is responsible for the disclosure, the Parties shall work together to: (a) promptly take all reasonable measures to retrieve the improperly disclosed material and to ensure that no further unauthorized disclosure and/or use thereof is made; (b) inform the Person(s) to whom unauthorized disclosure was made of all the terms of this Order, and (c) request such Person(s) execute the

Agreement Concerning Confidentiality in the form of Appendix A attached hereto.

11. Unauthorized or inadvertent disclosure shall not change the confidential status of any disclosed material or waive the Producing Party's right to maintain the disclosed material as containing Confidential Information, Highly Confidential Information, or Highly Confidential- Source Code.

Privileged Investigation Materials and Litigation Materials

12. (a) The production of privileged or work-product protected Documents, electronically stored information ("ESI"), or information, whether inadvertent or otherwise, is not a waiver of the privilege or protection from discovery in this case or in any other federal or state proceeding. This Order shall be interpreted to provide the maximum protection allowed by Federal Rule of Evidence 502(d). Federal Rule of Evidence 502(b) shall not apply to any disputes regarding Investigation Material or Litigation Material.

(b) Nothing contained herein is intended to or shall serve to limit a Party's right to conduct a review of Documents, ESI (including metadata), or information for relevance, responsiveness and/or segregation of privileged and/or protected information before production.

(c) If the Producing Party becomes aware that it has produced information protected by the attorney-client privilege or any other privilege or immunity, the Producing Party will promptly notify each Receiving Party in writing of the production and the basis of the privilege being asserted. After being notified, a Party must promptly return, sequester,⁴ or destroy the specified information and any copies or summaries of the information that it has; must not use or disclose the information until the claim is resolved; must take reasonable steps

⁴ For the avoidance of doubt, sequestration prohibits the Party in possession from further review of the material once a claim of privilege is made except as otherwise provided in this Paragraph.

to retrieve the information if the party disclosed it before being notified; and may promptly present the information to the court under seal for a determination of the claim in camera. Any challenge to a claim of privilege contemplated by this Paragraph must be made promptly. The Producing Party must preserve the information until the claim is resolved.

(d) If a Receiving Party becomes aware that it is in receipt of information or material that it knows or reasonably should know is privileged, counsel for the Receiving Party shall immediately take steps to: (i) stop reading such information or material; (ii) notify counsel for the Producing Party of such information or material; (iii) collect all copies of such information and material; and (iv) return to the Producing Party and/or destroy such information or material (and, in the case of destruction, certify that fact to the Producing Party if requested to do so). Any notes or summaries referring or relating to such material shall be destroyed simultaneously therewith.

(e) This Order is without prejudice to any Protected Person's right to assert that any Investigation Materials or Litigation Materials are subject to any applicable claim of privilege or protection, including, but not limited to, the attorney-client privilege and the work-product doctrine, and it is without prejudice to any Party's right to contest such a claim of privilege or protection.

Objections to Confidentiality Designations

13. Any Party who objects to any confidentiality designation, or part thereof, (the "Objecting Party") may, until 30 days before the trial of its Action, provide a written notice to the Protected Person who made such designation (the "Designating Party") and to all Parties stating with particularity the grounds for the objection. All materials objected to shall continue to be treated as Confidential Information, Highly Confidential Information, or Highly

Confidential - Source Code pending resolution of the dispute. Within 10 days of the Objecting Party's written notice, the Objecting Party and the Designating Party shall attempt to confer to discuss their respective positions. If the Objecting Party and Designating Party cannot reach an agreement on the objection within 10 days of the Objecting Party's written notice (or another deadline agreed to by the Objecting Party and the Designating Party), the Objecting Party may raise the dispute to this Court by filing a motion in accordance with the applicable Local Rules. If the Court finds the designation of Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code to have been inappropriate, the challenged designation shall be considered rescinded, and the Designating Party shall reproduce the Documents with the revised designations, along with an overlay file in accordance with Paragraph 7(g). Notwithstanding anything else contained in this Order, the Parties reserve their rights under Fed. R. Civ. P. 37.

Disclosure of Highly Confidential Information or Confidential Information

14. Highly Confidential Information may be disclosed only to the following Persons:

- (a) the Court and all Persons assisting the Court in the Action, including law clerks, court reporters, and stenographic or clerical personnel;
- (b) Outside Counsel for Defendant, except that access by non-attorneys shall be limited to personnel assigned to work on the Action, whose functions require access to the information. Such personnel shall not include any employee of a Party;
- (c) Plaintiffs' Counsel, except that access by non-attorneys shall be limited to personnel assigned to work on the Action, whose functions require access to the information;
- (d) outside vendors or service providers (such as copy-service providers,

outside court reporters retained for depositions, document-management consultants, or lawyers or law firms for document review other than Outside Counsel) and agents or independent contractors retained by a Party to assist that Party in the Action provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(e) any mediator, arbitrator, or special master that the Parties engage in this Action or that this Court appoints provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(f) any Person who the Highly Confidential Information itself indicates, or who the Receiving Party has a good-faith basis to believe, was the author, addressee, recipient, custodian, or source of the Document or Highly Confidential Information.

(g) any Person who the Highly Confidential Information itself indicates, or who the Receiving Party has a good-faith basis to believe, had lawful access to the Document or the Highly Confidential Information;

(h) during a deposition, any Person who the Highly Confidential Information itself indicates, or who the Receiving Party has a good-faith basis to believe, had knowledge of the Highly Confidential Information;

(i) during a deposition, any current employee of the Designating Party;

(j) any Person retained by a Party to serve as a testifying or consulting expert in this Action,⁵ including any employees of the firm with which the expert or consultant is

⁵ This provision does not apply to any Person retained by a Party to serve as a testifying or consulting expert, where such person is also an employee of a Party.

associated and independent contractors who assist the expert's work in the Action, provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(k) outside trial consultants (including, but not limited to, graphics consultants and mock jurors), provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(l) any Person as may be authorized by written agreement of the Designating Party, by verbal agreement of the Designating Party on the record at a deposition or Court hearing, or by order of the Court.

15. Confidential Information may be disclosed only to the following Persons:

(a) the Court and all Persons assisting the Court in the Action, including law clerks, court reporters, and stenographic or clerical personnel;

(b) Outside Counsel for Defendant, except that access by non-attorneys shall be limited to personnel assigned to work on the Action, whose functions require access to the information. Such personnel shall not include any employee of a Party;

(c) Plaintiffs' Counsel, except that access by non-attorneys shall be limited to personnel assigned to work on the Action, whose functions require access to the information;

(d) the officers, directors, and employees (including In-House Counsel) of Defendant to whom disclosure is reasonably necessary for this litigation and who have signed the Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(e) outside vendors or service providers (such as copy-service providers, outside

court reporters retained for depositions, document-management consultants, or lawyers or law firms for document review other than Outside Counsel) and agents or independent contractors retained by Defendant to assist Defendant in the Action provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(f) any mediator, arbitrator, or special master that the Parties engage in the Action or that this Court appoints provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(g) any Persons who the Confidential Information itself indicates, or who the Receiving Party has a good-faith basis to believe, was the author, addressee, recipient, custodian, or source of the Document or Confidential Information;

(h) any Persons who the Confidential Information itself indicates, or who the Receiving Party has a good faith basis to believe had lawful access to the Document or Confidential Information;

(i) during a deposition, any Persons who the Confidential Information itself indicates, or who the Receiving Party has a good-faith basis to believe, had knowledge of the Confidential Information;

(j) any Person whose statements or communications are quoted, recounted, or summarized in a Party's or Non-Party's Documents or Confidential Information, except that only those portions of the Documents or Confidential Information quoting, recounting, or summarizing a Person's statements or communications may be disclosed to that Person;

(k) during a deposition, any current employee of the Designating Party;

(l) outside trial consultants (including, but not limited to, graphics consultants and mock jurors) provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(m) any Person retained by a Party to serve as a testifying or consulting expert in these Action,⁶ including any employees of the firm with which the expert or consultant is associated and independent contractors who assist the expert's work in the Action, provided that they shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto;

(n) any Person as may be authorized by written agreement of the Designating Party, by verbal agreement of the Designating Party on the record at a deposition or Court hearing, or by order of the Court.

16. The Parties shall have the right to seek redress from this Court to enforce the provisions of the Agreement Concerning Confidentiality set forth in Appendix A with respect to any Person bound by this Order.

17. Each Person described in Paragraphs 14 and 15 of this Order to whom information designated as Highly Confidential Information or Confidential Information is disclosed must not disclose that Highly Confidential Information or Confidential Information to any other Person, except as permitted in this Order.

18. Nothing in this Order:

(a) limits a Protected Person's use or disclosure of its own information designated as Highly Confidential Information or Confidential Information;

⁶ This provision does not apply to any Person retained by a Party to serve as a testifying or consulting expert, where such Person is also an employee of a Party.

(b) prevents disclosure of Highly Confidential Information or Confidential Information with the consent of the Protected Person that designated the material as Confidential or Highly Confidential;

(c) prevents disclosure by a Party of Highly Confidential Information or Confidential Information: (i) that is or has become publicly known through no fault of that Party; (ii) lawfully acquired by or known to that Party independent of receipt during the Investigation or in discovery in the Action; (iii) previously produced, disclosed and/or provided to that Party without an obligation of confidentiality and not by inadvertence or mistake; or (iv) pursuant to an order of a court or as may be required by regulation;

(d) prevents counsel from rendering advice to his or her client with respect to this matter or from generally referring to or relying upon Confidential Information or Highly Confidential Information in rendering such advice so long as counsel does not specifically disclose the substance of the Confidential Information or Highly Confidential Information; or

(e) prevents Plaintiffs' retention, use, or disclosure of Investigation Materials outside the context of the Action to the extent permitted by applicable law or regulation, for law enforcement purposes, as required by law, court order, or regulation, or for the purpose of securing compliance with a Final Judgment in this Action. Any such disclosures shall be limited to those permitted by applicable law or regulation. Plaintiffs will not disclose any Litigation Materials produced only during the pendency of the Action to any Non-Party, except as ordered by a court or as may be required by law or regulation and subject to Paragraph 28. If Investigation Materials or Litigation Materials are requested for disclosure under a state's public information act or the equivalent, this Order prohibits disclosure to the

extent the state's public information act or the equivalent provides an exception for disclosure of information protected by court order.

Disclosure of Highly Confidential Information to Designated In-House Counsel for Parties Based on Need

19. A Party may at any time before the trial of its Action request disclosure of Highly Confidential Information to Designated In-House Counsel by consent of the Designating Party or motion with the Court. Unless otherwise ordered by the Court or agreed to in writing by the Designating Party, a Party seeking to disclose Highly Confidential Information to Designated In-House Counsel must submit in writing to the other Parties and the Designating Person a written statement that: (1) describes with particularity the Highly Confidential Information the Party seeks to disclose to Designated In-House Counsel; (2) sets forth the full name of each Designated In- House Counsel and the city and state of his or her residence, and (3) describes each Designated In-House Counsel's primary job duties and responsibilities in sufficient detail to determine if each Designated In-House Counsel is involved in Competitive Decision-Making. The Party must meet and confer with the Designating Party to try to resolve the matter by agreement within seven days of the written notice. If no agreement is reached, the Party may file a motion with the Court. The other Parties and/or the Designating Party will have seven days to respond to such motion. The Party will not disclose any Highly Confidential Information to Designated In-House Counsel pending resolution of the dispute. If the Court finds that the Designated In-House Counsel has a particularized need for access to the Highly Confidential Information that outweighs the risk of harm to the Designating Party or the public interest, the Party will be permitted to disclose the Highly Confidential Information to the Designated In-House Counsel.

Use of Information Designated Highly Confidential or Confidential in this Action

20. In the event that any Highly Confidential Information or Confidential Information is contained in any pleading, motion, exhibit, or other paper filed or to be filed with the Court, the Court shall be so informed by the Party filing such papers, and such papers shall be filed under seal, in accordance with this Court's Local Rule 5, as modified by the terms of this Order. The Parties agree to act in good faith to limit the need to seal Documents filed in this Court.

21. Filing Highly Confidential Information or Confidential Information Under Seal.

The filing of documents designated as Confidential or Highly Confidential under seal will be governed by the provisions of Local Civil Rule 5.

22. Parties shall give the other Parties notice (a minimum of two business days) if they reasonably expect a deposition, hearing, or other proceeding to include Highly Confidential Information so that the other Parties can ensure that only authorized individuals are present during the portions of those proceedings where the Highly Confidential Information may be used. The use of a Document as an exhibit at a deposition shall not in any way affect its designation as Highly Confidential Information or Confidential Information.

Use of Highly Confidential Information or Confidential Information at Trial

23. Disclosure at trial or at any evidentiary hearing of any Document, testimony, or other material designated as Highly Confidential Information or Confidential Information will be governed pursuant to a separate court order. Unless otherwise directed by the Court, the Parties shall meet and confer and file a motion accompanied by a proposed order outlining those procedures no later than 30 calendar days before the first day of trial or any evidentiary

hearing. Upon the filing of a motion and proposed order governing the disclosure of Highly Confidential Information or Confidential Information at trial or any evidentiary hearing, the Parties shall provide notice of such order to Non-Parties whose Highly Confidential Information or Confidential Information is expected to be used at trial or any evidentiary hearing.

24. Unless otherwise provided for in this Order, Highly Confidential Information and Confidential Information produced by a Party or a Non-Party in the Action shall be used solely for the conduct of the Action and shall not be used by a Party, Non-Party, or any Person subject to this Order, including counsel for a Party or Non-Party, for any business, commercial, competitive, personal, or other purpose. Such Highly Confidential and Confidential Information may only be disclosed under the conditions described in this Order.

Investigation Materials or Litigation Materials Subpoenaed or Ordered Produced in Other Litigation

25. If a Party is served with a lawful subpoena or a court order issued by a court, arbitral, administrative, or legislative body, or with a court order issued in other litigation that compels disclosure of any information or items designated in the Action as Confidential or Highly Confidential that Party must:

- (a) promptly notify in writing the Designating Party (such notification shall include a copy of the subpoena or court order);
- (b) promptly notify in writing the Person or entity who issued the subpoena or caused the order to issue in the other litigation, that some or all of the material covered by the subpoena or order is subject to this Order (such notification shall include a copy of this Order); and
- (c) cooperate with respect to all reasonable procedures sought to be pursued by

the Designating Party whose Highly Confidential or Confidential Information may be affected.⁷

26. If the Designating Party timely⁸ seeks a protective order, the Party served with the subpoena or court order shall not produce any information designated in this Action as Confidential or Highly Confidential before a determination by the court from which the subpoena or order issued, unless the Party has obtained the Designating Party's permission. The Designating Party shall bear the burden and expense of seeking protection in that court of its Confidential Information or Highly Confidential Information—and nothing in these provisions should be construed as authorizing or encouraging a Receiving Party in the Action to disobey a lawful directive from another court.

27. If, under any public records or other relevant law, any Investigation Materials or Litigation Materials are subject to any form of compulsory process in a Plaintiff State or is demanded from any Plaintiff, such Plaintiff shall notify in writing the Designating Party whose Investigation Materials or Litigation Materials may be affected at least 10 business days before producing Investigation Materials or Litigation Materials, unless state or federal statute, or court order or other public adjudicatory body requires that the Plaintiff State produce the Investigation Materials or Litigation Materials in a shorter time frame. A Plaintiff shall not produce the Investigation Materials or Litigation Materials in response to such

⁷ The purpose of imposing these duties is to alert the interested parties to the existence of this Order and to afford the Designating Party in this case an opportunity to try to protect its confidentiality interests in the court or other tribunal from which the subpoena or order issued.

⁸ The Designating Party shall have at least 14 days from the service of the notification pursuant to Paragraph 25(a) to seek a protective order, unless the subpoena or order requires a response within a period shorter than 14 days, or unless a shorter period applies under the rules of the court or other tribunal from which the subpoena or order issued, in which case such rules shall apply.

compulsory process or public records request unless the Plaintiff deems that it is required by law to do so and provides 10 business days' notice of its intent to do so to the Designating Party, unless state or federal statute, or court order or other public adjudicatory body requires that the Plaintiff produce the Investigation Materials or Litigation Materials in a shorter time frame. However, if a Plaintiff denies a public records or similar request and the denial is not successfully challenged or overruled, the Plaintiff does not need to provide notice pursuant to this paragraph. If Investigation Materials or Litigation Materials are requested for disclosure under a state's public information act or the equivalent, this Order prohibits disclosure to the extent the state's public information act or the equivalent provides an exception for disclosure of information protected by court order. Nothing contained herein shall alter or limit the obligations of a Plaintiff State that may be imposed by statute or court order regarding the disclosure of Documents and information supplied to the state.

Procedures upon Termination of this Action

28. The obligations imposed by this Order survive the termination of this Action unless the Court, which shall retain jurisdiction to resolve any disputes arising out of this Order, orders otherwise. Except as otherwise provided by Paragraph 18, within 90 days after the expiration of the time for appeal of an order, judgment, or decree terminating the Action, all Persons, other than Plaintiffs, having received information designated as Confidential Information, Highly Confidential Information) or Highly Confidential - Source Code in such Action must return all copies thereof to the Protected Person (or the Protected Person's counsel if represented by counsel) that produced it or destroy or delete all copies of such Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code. Within 90 days after the expiration of the time for appeal of an order, judgment, or

decree terminating the Action, all Plaintiffs in such Action having received information designated as Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code must, to the extent permitted by Plaintiffs' retention schedules, either make a good-faith effort to return all copies thereof to the Protected Person (or the Protected Person's counsel if represented by counsel) that produced it or destroy or delete all copies of such Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code. Within 90 days after the expiration of the time for appeal of an order, judgment, or decree terminating this Action, all Persons having received information designated as Confidential Information must certify compliance with this Paragraph 28 in writing to the Party or Protected Person that produced the Confidential Information.

29. Counsel for the Parties will be entitled to retain court papers and exhibits, deposition transcripts and exhibits, hearing transcripts and exhibits, trial transcripts and exhibits, correspondence (including internal correspondence and email) and work product, provided that the Parties and their counsel do not disclose the portions of these materials containing information designated as Highly Confidential Information or Confidential Information to any Person, except pursuant to court order or agreement with the Protected Person that produced the Highly Confidential Information or Confidential Information or as otherwise permitted herein. All Highly Confidential Information and Confidential Information returned to the Parties or their counsel by the Court likewise must be disposed of in accordance with this paragraph. Nothing in this paragraph, however, restricts the rights of the Parties under Paragraphs 14 and 15 of this Order.

New Parties to The Action

30. In the event that additional Persons or entities become parties to the Action,

such new Parties shall not have access to Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code produced by or obtained from any Protected Person until an authorized person executes, on behalf of the new Party, an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto.

Non-Parties

31. Any Party, in conducting discovery from Non-Parties in connection with the Action, shall provide any Non-Party from which it seeks discovery with a copy of this Order so as to inform each such Non-Party of his, her or its rights herein. If a Non-Party provides discovery to any Party in connection with the Action, the provisions of this Order shall apply to such discovery as if such discovery were being provided by a Party. Under such circumstances, if the Non-Party agrees to be bound by the terms of this Order in the form of Appendix A attached hereto, the Non-Party shall have the same rights and obligations under the Order as held by the Parties, except that, other than with leave of court, in no circumstance may a Party's Highly Confidential Information be disclosed to a Non-Party without the consent of that Party. However, a Party's Highly Confidential Information may be shared with a former employee of that Party if the former employee may view the Highly Confidential Information pursuant to Paragraph 14.

Reservation of Rights

32. Nothing contained in this Order or any designation of confidentiality hereunder, or any failure to make such designation, shall be used or characterized by any Party as an admission by a Party or a Party opponent. Nothing in this Order shall be deemed an admission that any particular information designated as Confidential Information, Highly

Confidential Information, or Highly Confidential - Source Code is entitled to protection under the Order, Federal Rule of Civil Procedure 26(c), or any other law. Nothing in this Order shall be construed as granting any Person a right to receive specific Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code where a court has entered an order precluding that Person from obtaining access to that information. The Parties specifically reserve the right to challenge the designation of any particular information as Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code and agree that no Party waives any right it otherwise would have to object to disclosing or producing any information or item on any ground not addressed in this Order. Similarly, no Party waives any right to object on any ground to introduction or use as evidence of any of the Investigation Materials or Litigation Materials covered by this Order.

Standard of Care

33. The recipient of any Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code shall maintain such material in a secure and safe area and shall exercise a standard of due and proper care with respect to the storage, custody, use, and/or dissemination sufficient to safeguard against unauthorized or inadvertent disclosure of such material. Confidential Information, Highly Confidential Information, or Highly Confidential - Source Code shall not be copied, reproduced, extracted or abstracted, except for the purpose of the conduct of the Action or as otherwise provided by this Order. All such copies, reproductions, extractions, and abstractions shall be subject to the terms of this Order and be clearly marked to reflect their designation.

Right to Seek Modification

34. Nothing in this Order limits any Person, including members of the public, a Party, or a

Protected Person, from seeking: (1) further or additional protections of any of its materials, or (2) modification of this Order upon motion duly made pursuant to the Rules of this Court, including, without limitation, an order that certain material not be produced at all or is not admissible evidence in the Action or any other proceeding.

The Privacy Act

35. Any order of this Court requiring the production of any Document, information, or transcript of testimony constitutes a court order within the meaning of the Privacy Act, 5 U.S.C. § 552a (b) (11).

Persons Bound by This Order

36. This Order shall be binding on the Parties to the Action, their attorneys, and their successors, personal representatives, administrators, assigns, parents, subsidiaries, divisions, affiliates, employees, agents, retained consultants and experts, and any persons or organizations over which they have direct control, and any Non-Party, to the extent such Non-Party has agreed to be bound by this Order.

37. All persons subject to this Order are reminded that this Order may be enforced by the Court's full powers of criminal and civil contempt.

IT IS HEREBY SO ORDERED this 11TH day of MAY, 2023.

/s/ JFA
John F. Anderson
United States Magistrate Judge

APPENDIX A (NON-PARTY CONFIDENTIALITY AGREEMENT)

UNITED STATES OF AMERICA, et al.

Plaintiffs,

v.

GOOGLE LLC,

Defendant.

Civil Action No.: 1:23-CV-00108-LMB-JFA

AGREEMENT CONCERNING CONFIDENTIALITY

I, _____, am employed by _____
as _____.

I hereby certify that:

1. I have read the Protective Order (“Order”) entered in the above-captioned action (this “Action”) and understand its terms.
2. I agree to be bound by the terms of the Order entered in this Action.
3. I agree to use the information provided to me only as permitted in the Order.
4. I understand that my failure to abide by the terms of the Order entered in this Action may subject me to civil and criminal penalties for contempt of court.
5. I submit to the jurisdiction of this Court, and specifically the United States District Court for the Eastern District of Virginia, solely for the purpose of enforcing the terms of the Order entered in the above-captioned action and freely and knowingly waive any right I

may otherwise have to object to the jurisdiction of said court.

Signature

Date

APPENDIX B

UNITED STATES OF AMERICA, et al.

Plaintiffs,

v.

GOOGLE LLC,

Defendant.

Civil Action No.: 1:23-CV-00108-LMB-JFA

PROTECTIVE ORDER: SOURCE CODE PROTOCOL

Restrictions on those who may view Source Code

1. Unless otherwise ordered by the Court or permitted in writing by the Designating Party, a Receiving Party may disclose any information or item designated Highly Confidential - Source Code only to:

a) the Receiving Party's Outside Counsel of Record in this action, as well as employees of said Outside Counsel of Record to whom it is reasonably necessary to disclose the information for this litigation and who have signed the "Agreement Concerning Confidentiality" that is attached to the Protective Order as Appendix A;

b) Plaintiffs' Counsel, if one or more Plaintiffs is the Receiving Party, except that access by non-attorneys shall be limited to personnel to whom it is reasonably necessary to disclose the information for this litigation and who have signed the "Agreement Concerning Confidentiality" that is attached to the Protective Order as Appendix A;

c) up to five Experts⁹ (for the avoidance of doubt, the Parties can agree to allow such disclosure to more than five Experts of the Receiving Party) of the Receiving Party (1) to whom disclosure is reasonably necessary for this litigation, (2) who have signed the “Agreement Concerning Confidentiality” (Appendix A), and (3) as to whom the procedures set forth in Paragraph 2 below and specifically identified as eligible to access Highly Confidential - Source Code Information or Items, have been followed;

d) the Court and its personnel;

e) stenographic reporters, videographers and their respective staff who have signed the “Agreement Concerning Confidentiality” (Appendix A) and are transcribing or videotaping a deposition wherein Highly Confidential - Source Code Information or Items are being discussed, provided that such reporters and videographers shall not retain or be given copies of any portions of the source code, which if used during a deposition, will not be attached as an exhibit to the transcript but instead shall be identified only by its production numbers.

f) while testifying at deposition or trial in this action only: (i) any current officer, director, or employee of the Producing Party or original source of the information; (ii) any person designated by the Producing Party to provide testimony pursuant to Rule 30(b)(6) of the Federal Rules of Civil Procedure; and/or (iii) any person who authored, previously received (other than in connection with this litigation), or was directly involved in creating, modifying,

⁹ “Expert” means any Person retained by a Party to serve as a testifying or consulting expert in this Action, including any employees of the firm with which the expert or consultant is associated and independent contractors who assist the expert's work in the Action, provided that any such testifying expert, consulting expert, employee, or independent contractor shall first execute an Agreement Concerning Confidentiality agreeing to be bound by the terms of this Order in the form of Appendix A attached hereto and comply with all provisions of this Source Code Protocol including by supplying the information needed for compliance with the Process for Requesting To Disclose Source Code set forth below.

or editing the Highly Confidential - Source Code Information or Items, as evident from its face or reasonably certain in view of other testimony or evidence. Persons authorized to view Highly Confidential - Source Code Information or Items pursuant to this sub-paragraph shall not retain or be given copies of the Highly Confidential - Source Code Information or Items except while so testifying.

Process for Requesting to Disclose Source Code

2. Unless otherwise ordered by the court or agreed to in writing by the Designating Party, a Party that seeks to disclose to an Expert (as defined in this Order) any information or item that has been designated Highly Confidential - Source Code pursuant to paragraphs 1(b) first must make a written request to the Designating Party that (1) identifies the general categories of Highly Confidential- Source Code information that the Receiving Party seeks permission to disclose to the Expert, (2) sets forth the full name of the Expert and the city and state of his or her primary residence, (3) attaches a copy of the Expert's current resume, (4) identifies the Expert's current employer(s), (5) identifies each person or entity from whom the Expert has received compensation or funding for work in his or her areas of expertise or to whom the expert has provided professional services, including in connection with a litigation, at any time during the preceding five years, and (6) identifies (by name and number of the case, filing date, and location of court) any litigation in connection with which the Expert has offered expert testimony, including through a declaration, report, or testimony at a deposition or trial, during the preceding five years.

3. A Party that makes a request and provides the information specified in the preceding respective paragraphs may disclose the subject Highly Confidential - Source Code to the identified Expert unless, within 14 days of delivering the request, the Party receives a written

objection from the Designating Party. Any such objection must set forth in detail the grounds on which it is based.

4. A Party that receives a timely written objection must meet and confer with the Designating Party (through direct voice to voice dialogue) to try to resolve the matter by agreement within seven days of the written objection. If no agreement is reached, the Party seeking to make the disclosure to the Expert may file a motion in accordance with Local Rules and Individual Practices seeking permission from the court to do so. Any such motion must describe the circumstances with specificity, set forth in detail the reasons why the disclosure to the Expert is reasonably necessary, assess the risk of harm that the disclosure would entail, and suggest any additional means that could be used to reduce that risk. In addition, any such motion must be accompanied by a competent declaration describing the parties' efforts to resolve the matter by agreement (i.e., the extent and the content of the meet and confer discussions) and setting forth the reasons advanced by the Designating Party for its refusal to approve the disclosure.

5. In any such proceeding, the Party opposing disclosure to the Expert shall bear the burden of proving that the risk of harm that the disclosure would entail (under the safeguards proposed) outweighs the Receiving Party's need to disclose the Protected Material to its Expert.

Restrictions on those who may see Source Code (Patent and Acquisition Bars)

6. Absent written consent from the Producing Party, any individual who receives access to information designated Highly Confidential - Source Code by the Producing Party shall not be involved in the prosecution of patents or patent applications relating to the subject matter of this action, including without limitation the patents related to the subject matter of this action and any patent or application claiming priority to the patents related to the subject matter of this action, before any foreign or domestic agency, including the United States Patent and Trademark

Office (“the Patent Office”). For purposes of this paragraph, “prosecution” means directly or indirectly drafting, amending, or advising others as to the drafting or amending of patent claims. To avoid any doubt, “prosecution” as used in this paragraph does not include representing a party challenging or defending a patent before a domestic or foreign agency (including, but not limited to, a reissue protest, ex parte reexamination, inter partes reexamination, inter partes review, post grant review or covered business method review). This Prosecution Bar shall begin when access to Source Code information is first received by the affected individual and shall end two (2) years after final termination of this action.

7. Absent written consent from the Producing Party, any individual who receives access to information designated Highly Confidential - Source Code by the Producing Party shall not (i) participate in the acquisition of patents or patent applications relating to the subject matter of this action for the purposes of assertion against Google LLC; or (ii) advise or counsel clients regarding the same. This Acquisition Bar shall not prohibit counsel from advising clients on other legal matters involving patents, including validity and settlement negotiations. This Acquisition Bar shall begin when access to Source Code information is first received by the affected individual and shall end two (2) years after final termination of this action.

Process for Reviewing Source Code

8. To the extent production of source code becomes necessary in this case, a Producing Party may designate material as Highly Confidential - Source Code if it comprises, includes, or substantially discloses confidential, proprietary or trade secret source code or algorithms. This material may include, among things, technical design documentation that comprises, includes, or substantially discloses source code or algorithms.

9. Protected Material designated as Highly Confidential - Source Code shall be subject to all

of the protections herein including the Prosecution Bar set forth in Paragraph 6 and the Acquisition Bar set forth in Paragraph 7, and may be disclosed only as set forth in Paragraph 1.

10. Any source code produced in discovery shall only be made available for inspection, not produced except as set forth below, in a format allowing it to be reasonably reviewed and searched, during normal business hours or at other mutually agreeable times, at (1) an office of the Producing Party or the Producing Party's primary outside counsel of record or (2) another mutually agreed upon location. The source code shall be made available for inspection on a secured computer (the "Source Code Computer") in a secured, locked room without Internet access or network access to other computers, and the Receiving Party shall not copy, remove, or otherwise transfer any portion of the source code onto any recordable media or recordable device. The Producing Party will make a good faith effort to provide legitimate review tools to the Source Code Computer as requested by the Receiving Party. The Receiving Party shall provide a license to the requested review tools should the Producing Party not already have one. The secured computer shall have disk encryption and be password protected. Use or possession of any input/output device (e.g., USB memory stick, mobile phone or tablet, camera or any camera-enabled device, CD, floppy disk, portable hard drive, laptop, or any device that can access the Internet or any other network or external system, etc.) is prohibited while accessing the computer containing the source code. All persons entering the locked room containing the source code must agree to submit to reasonable security measures to ensure they are not carrying any prohibited items before they will be given access to the locked room. The computer containing source code will be made available for inspection during regular business hours (9:00 A.M. to 5:00 P.M. local time), upon reasonable notice to the producing party, which shall not be less than 3 business days in advance of the requested inspection. The Producing Party may visually monitor the activities of the Receiving Party's representatives during any source code

review, but only to ensure that there is no unauthorized recording, copying, or transmission of the source code.

11. The Receiving Party may request paper copies of limited portions of source code, but only if and to the extent reasonably necessary for the preparation of court filings, pleadings, expert reports, or other papers, or for deposition or trial and except to the extent allowed in Paragraph 16. The Receiving Party shall not request paper copies for the purposes of reviewing the source code other than electronically as set forth in Paragraph 10 in the first instance. The Producing Party shall undertake to produce the requested material as soon as possible after it is requested, but in no event more than 5 business days after the request, and the Producing Party will provide the requested material on watermark or colored paper (which shall not prevent the creation of legible copies made only as authorized herein) bearing Bates numbers and the legend Highly Confidential- Source Code unless objected to as discussed below. At the inspecting Party's request or the request of an Expert retained by the inspecting Party to whom disclosure of material designated Highly Confidential - Source Code is permitted, additional sets (or subsets) of printed source code may be requested and provided by the Producing Party within 5 business days of the request. The Producing Party may challenge the amount of source code requested in hard copy form pursuant to the dispute resolution procedure and timeframes set forth in Paragraph 13 of the Protective Order, whereby the Producing Party is the "Challenging Party" and the Receiving Party is the "Designating Party" for purposes of dispute resolution. Contested printouts do not need to be produced to the Receiving Party until the matter is resolved by the Court.

12. The Receiving Party shall maintain a record of any individual who has inspected any portion of the source code in electronic or paper form. The Receiving Party shall maintain all printed portions of the source code in a secured, locked area under the direct control of counsel

(or outside experts or consultants who have been approved to access source code) responsible for maintaining the security and confidentiality of the designated materials. Any paper copies designated Highly Confidential - Source Code shall be stored or viewed only at (i) the offices or working locations of outside counsel for the Receiving Party, (ii) the offices or working locations of outside experts or consultants who have been approved to access source code; (iii) the site where any deposition is taken (iv) the Court; or (v) any intermediate location necessary to transport the information to a hearing, trial or deposition. Except as provided in Paragraph 16 of this Appendix, the Receiving Party shall not create any electronic or other images of the paper copies and shall not convert any of the information contained in the paper copies into any electronic format. Any printed pages of source code, and any other documents or things reflecting source code that have been designated by the producing party as Highly Confidential - Source Code may not be copied, digitally imaged or otherwise duplicated, except the Receiving Party may make additional paper copies if such additional copies are necessary to prepare court filings, pleadings, or other papers (including a testifying expert's expert report) or necessary for deposition, or as provided below in Paragraph 16. Any paper copies used during a deposition shall be retrieved by the Receiving Party at the end of each day and must not be given to or left with a court reporter or any other unauthorized individual.

13. The Receiving Party's outside counsel and/or expert shall be entitled to take notes relating to the source code but may not copy any portion of the source code into the notes. No copies of all or any portion of the source code may leave the room in which the source code is inspected except as otherwise provided herein. Further, no other written or electronic record of the source code is permitted except as otherwise provided herein.

14. A list of names of persons who will view the source code will be provided to the

producing party in conjunction with any written (including email) notice requesting inspection.

The Producing Party shall maintain a daily log of the names of persons who enter the locked room to view the source code and when they enter and depart. The Receiving Party shall be entitled to a copy of the log.

15. The Receiving Party's outside counsel shall maintain a log of all copies of the source code in its possession or in the possession of its retained consultants. The log shall include the names of the recipients and reviewers of copies and locations where the copies are stored. Upon request by the Producing Party, the Receiving Party shall provide reasonable assurances and/or descriptions of the security measures employed by the Receiving Party and/or person that receives a copy of any portion of the source code. The Producing Party shall be entitled to a copy of the log.

16. Except as provided in this paragraph, the Receiving Party may not create electronic images, or any other images, of the source code from the paper copy for use on a computer (e.g., may not scan the source code to a PDF, or photograph the code). The Receiving Party may create an electronic copy or image of limited excerpts of source code only to the extent necessary in a pleading, exhibit, expert report, discovery document, deposition transcript, other Court document, or any drafts of these documents ("Source Code Documents"). The Receiving Party shall only include such excerpts as are reasonably necessary for the purposes for which such part of the Source Code is used. Images or copies of Source Code shall not be included in correspondence between the parties (references to production numbers shall be used instead) and shall be omitted from pleadings and other papers except to the extent permitted herein. The Receiving Party may create an electronic image of a selected portion of the Source Code only when the electronic file containing such image has been encrypted using commercially

reasonable encryption software including password protection. The communication and/or disclosure of electronic files containing any portion of source code shall at all times be limited to individuals who are authorized to see source code under the provisions of this Protective Order. Additionally, all electronic copies must be labeled Highly Confidential - Source Code.

17. To the extent portions of source code are quoted in a Source Code Document, either (1) the entire document will be stamped and treated as Highly Confidential - Source Code or (2) those pages containing quoted Source Code will be separately bound, and stamped and treated as Highly Confidential - Source Code.

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF VIRGINIA
Alexandria Division

UNITED STATES OF AMERICA, et al.,)	
)	
Plaintiffs,)	
)	
v.)	No. 1:23-cv-00108-LMB-JFA
)	
GOOGLE LLC,)	
)	
Defendant.)	

~~PROPOSED~~ ORDER REGARDING ELECTRONICALLY
STORED INFORMATION (“ESI”)

WHEREAS, Rule 26(f) of the Federal Rules of Civil Procedure states that the parties must develop a proposed discovery plan that states the parties’ views and proposals on, among other things, “any issues about disclosure, discovery, or preservation of electronically stored information, including the form or forms in which it should be produced,” Fed. R. Civ. P. 26(f)(3)(C);

WHEREAS, the parties mutually seek to reduce the time, expense, and other burdens of discovery of certain electronically stored information (“ESI”) and privileged materials, as described further below, and to better define the scope of their obligations with respect to preserving such information and materials;

WHEREAS, the parties are aware of the importance of cooperation and commit to cooperate in good faith throughout the matter to promote the “just, speedy, and inexpensive determination” of this action, as required by Fed. R. Civ. P. 1. The parties agree to use reasonable, good faith, and proportional efforts to preserve, identify and produce relevant and discoverable information consistent with Fed. R. Civ. P. 26(b)(1). The parties’ cooperation includes identifying appropriate limits to eDiscovery, including limits on custodians, identifying relevant and discoverable subject matter, establishing time periods for eDiscovery and other parameters to limit and guide preservation and eDiscovery issues;

NOW THEREFORE, it is hereby ORDERED:

I. GENERAL PROVISIONS

1. Except as specifically set forth herein, this Order does not alter or affect the applicability of the Federal Rules of Civil Procedure or Local Rules for the United States District Court for the Eastern District of Virginia.
2. The production specifications set forth in this Stipulation and Order apply to Documents and ESI that is to be produced in the first instance in the above-captioned litigation. This Stipulation and Order do not apply to materials previously produced to any Plaintiff as part of a pre-complaint investigation. No Party is obligated to reformat any such prior production in accordance with the production specifications in this Stipulation and Order. The production specifications set forth in this Stipulation and Order do not apply to databases, data sources, logs, and other structured data except as described in paragraph M below.
3. “Action” means the action filed in this Court under the caption *United States, et al. v. Google LLC*, 23-cv-00108-LMB-JFA, as well as any additional actions subsequently transferred and/or centralized with this Action, including any related discovery, pretrial, trial, post-trial, or appellate proceedings. For the avoidance of doubt, “Action” excludes pre-Complaint investigations by Plaintiffs.
4. The parties agree to meet and confer to the extent that new plaintiff states are added later to the litigation and those states request reasonable modifications to these production specifications.
5. The term “Federal Agency Advertisers” (“FAAs”) has the meaning set forth in paragraph 6.A of the Joint Proposed Discovery Plan at ECF 87, as adopted by the Court in the Scheduling Order at ECF 94.

II. PRESERVATION

1. Materials To Be Preserved. Each Party will continue its retention practices with regards to all Documents and ESI and will take reasonable and proportionate steps to preserve relevant and discoverable ESI in compliance with duties to preserve material under the Federal Rules of Evidence and the Federal Rules of Civil Procedure. Upon mutual agreement of the parties, a party will modify its retention practices to ensure the preservation of potentially responsive Documents and ESI.
2. To reduce the costs and burdens of preservation and to ensure proper ESI is preserved, the parties agree that:
 - a. Parties shall preserve non-duplicative relevant electronically stored information in their possession, custody, or control.
 - b. Subject to and without waiving any protection described above, the parties agree that:
 - i. The parties will endeavor to agree upon a date limitation for the preservation of ESI;
 - ii. The parties will endeavor to agree upon a list of the types of relevant ESI they believe should be preserved and the custodians for whom they believe relevant ESI should be preserved. The parties shall add or remove custodians as reasonably necessary.
3. The Court concludes that the following categories of ESI are not reasonably accessible in this litigation and orders that they need not be preserved, searched, collected, or reviewed. The parties will continue to meet and confer regarding any additional categories of information that are not reasonably accessible.
 - a. Back-up systems used for disaster recovery and tapes used for disaster recovery;
 - b. Individual user data subject to routine disposition required by privacy regulations;

- c. Information from handsets, mobile devices, personal digital assistants, and tablets that is duplicative of information that resides in a reasonably accessible data source;
 - d. Logs of calls made from cellular phones;
 - e. Voicemail messages;
 - f. Slack, fragmented, or unallocated data accessible only by forensics;
 - g. Data stored in random access memory (“RAM”), temporary files, or other ephemeral data that are difficult to preserve without disabling the operating system;
 - h. Data in metadata fields that are frequently updated automatically, such as last-opened or last modified dates;
 - i. Ad logs created prior to April 19, 2023;¹
 - j. Systems no longer in use that cannot be accessed as of the date the preservation obligation was triggered; and
 - k. Information created or copied during the routine, good-faith performance of processes for the deployment, maintenance, retirement, and/or disposition of computer equipment by the party that is duplicative of information that resides in a reasonably accessible data source.
4. Nothing in this Stipulation and Order prevents any party from asserting, in accordance with the Federal Rules of Civil Procedure, that other categories of Documents or ESI are not reasonably accessible.²
5. The parties agree to preserve ESI in such a way that it can be produced in a reasonably usable form in accordance with Federal Rule of Civil Procedure 34(b)(2)(E)(ii).

¹ The parties agree to meet and confer regarding a relevant and proportionate set of ad logs in the May and June 2023 timeframe to be sampled and/or preserved.

² The parties have met and conferred and have been unable to reach agreement as to whether the following types of ESI are not reasonably accessible: (a) Online access data such as temporary or cache files, including internet history, web browser cache and cookie files, wherever located, (b) Server, system, or network logs; and (c) Dynamic fields of databases, dashboards, or log files.

6. Preservation Does Not Affect Discoverability or Claims of Privilege. By preserving Documents and ESI for the purpose of this litigation, the Parties are not conceding that such material is discoverable, nor are they waiving any claim of privilege.

III. COLLECTION AND REVIEW

1. The parties agree that in responding to an initial Fed. R. Civ. P. 34 request, they will meet and confer about methods to search ESI in order to identify ESI that is subject to production in discovery and filter out ESI that is not subject to discovery.
2. The parties will meet and confer in good faith regarding search terms or use of technology-assisted review or a similar tool (collectively “TAR”) to identify responsive documents. In the event a party elects to use search terms, if a requesting party objects to the sufficiency of the producing party's terms, the requesting Party may propose modifications or a list of additional terms. The parties will meet and confer in good faith regarding any proposed changes. Any disputes over search terms that cannot be resolved between the parties during a meet and confer may be consequently raised with the Court.
3. Nothing in this Order may be construed or interpreted as precluding a producing party from performing a responsiveness review to determine if documents captured by search terms are in fact relevant to the requesting party's request. Nothing in this Order precludes a party from using TAR, or some other method to fulfill their document production obligations, provided that the party discloses to the other party the process used and complies with the meet and confer obligations outlined in this Order. However, a producing party that wishes to use TAR in conjunction with search terms must meet and confer with the receiving party before using this method to collect and review documents and prior to negotiation of search terms. Nothing may be construed or interpreted as precluding a producing party from performing a privilege review of documents determined to be relevant by any means. Further, nothing in this Order shall be construed or interpreted as requiring the production

of all documents captured by any search term or TAR if that document is in good faith and reasonably deemed not relevant to the requesting party's request or privileged.

4. Each party will use its best efforts to filter out common system files and application executable files by using a commercially reasonable hash identification process. Hash values that may be filtered out during this process are located in the National Software Reference Library ("NSRL") NIST hash set list.
5. De-Duplication. Each party is required to produce only a single copy of a responsive document. A producing party electing to deduplicate shall deduplicate across Custodians and at the family-level only (i.e., if there are identical child documents that have different parents, they are not duplicative, and an attachment to a document is not a duplicate of the same document maintained as a standalone document). Each party may de-duplicate responsive ESI (based on Source Hash, MD5 hash values, or other industry standard method) across Custodians. For emails with families, the hash value is generated based on the parent/child document grouping. To the extent that deduplication through hash values is not possible, the parties shall meet and confer to discuss any other proposed method of deduplication. A producing party must make reasonable effort to identify all agreed upon custodians who were in possession of any de-duplicated documents through an appropriate load file field such as All Custodians. Additionally, all BCC recipients whose names would have been included in the BCC metadata field, to the extent such metadata exists, but are excluded because of horizontal/global de-duplication, must be identified in the BCC metadata field specified in Appendix 1. In the event of rolling productions of documents or ESI, the producing party will, as needed, supplement the load files with updated All Custodian information, as well as BCC information to the extent such metadata exists. Duplicate custodian information may be provided by a metadata overlay and will be provided by a producing party on an ongoing basis.

6. Email Threading. Production of a most inclusive email thread does not relieve the Producing Party of its obligation to produce responsive prior or lesser-included emails. No document shall be withheld from production solely on the basis that it is included in a produced more-inclusive email.
7. Cooperation. The Parties agree to work together in good faith to resolve any differences that they may have over the Producing Party's use of search terms or TAR, or a combination of the search terms and TAR, or some other method, or for documents that cannot be searched electronically.
8. Filtering. If a producing party proposes to apply other filters to limit Documents and ESI that is collected for processing and review (e.g., filters that identify system files, non-user generated files, or zero-byte files), the producing party shall advise the requesting party and the requesting and producing parties shall meet and confer regarding such additional proposed filters.

Each Party shall use its institutional knowledge of how its ESI is stored and accessed in the ordinary course of business to identify responsive Documents. This institutional knowledge includes, but is not limited to, a Party's standard practices regarding the storage of ESI, its file organization structure, its usage of group ownership, group accounts, and shared network locations to manage or organize ESI.

IV. PRODUCTION FORMAT

1. Subject to paragraph I.2 above, the parties agree to produce documents in the formats described in Appendix 1 to this Order. If particular documents warrant a different format, the parties will cooperate to arrange for the mutually acceptable production of such documents. The parties agree, to the extent practicable, not to materially degrade the searchability of the documents as part of the document production process.

V. PRIVILEGE LOGS

1. Any Producing Party will produce a privilege log within 45 days after each production.³
Except as provided otherwise below, for any Document withheld or redacted, the Producing Party will produce privilege logs in MS Excel (.xlsx) format.
2. If any member of a produced Document Family is withheld on grounds of privilege or work-product, the Producing Party shall produce a Bates stamped placeholder slipsheet that identifies the Document as withheld as privileged and shall identify the Document in the Privilege Log by the Bates number on the placeholder slipsheet.
3. Privilege logs shall be provided containing the following information, to the extent reasonably available:
 - a. A sequential or control number associated with each entry in the privilege log;
 - b. Where applicable, BegBates and Parent BegBates;
 - c. The Custodian or Custodial or Non-Custodial Data Source from which the Document was collected;
 - d. The name of each person who sent, authored, or otherwise prepared the Document;
 - e. The identity of each person designated as an addressee or copyee, including CC and BCC (copyees and blind copyees shall appear in separate fields);
 - f. The date;
 - g. A description, pursuant to Federal Rule of Civil Procedure 26(b)(5)(A)(ii), of the contents of the withheld Document that, without revealing information that is itself privileged or protected, is sufficient to enable other Parties to understand the general subject matter of the Document and assess the basis of the claim of privilege or other protection from disclosure;

³ The parties will meet and confer over an appropriate date for producing a privilege log relating to documents produced by Google prior to the filing of the complaint.

- h. To the extent reasonably available, the name of the attorney(s) and legal organization who provided the legal advice at issue, from whom the legal advice at issue is requested, who directed the facilitation of the legal advice at issue, and/or who requested or prepared the Document;
 - i. The nature of the privilege or protection asserted (i.e., attorney-client privilege, work product doctrine).
4. If a Producing Party contends that all Documents of a particular type or category are privileged, or requiring the creation of an individualized privilege log is not reasonable or proportionate for documents of a particular type or category, they shall meet and confer with the Receiving Party on identifying such Documents on a privilege log by category rather than individually. The Receiving Party shall consider any such request in good faith. The Producing Party's categorical privilege log entry must still provide the Requesting Party, and the Court if necessary, with information sufficient to evaluate the Producing Party's privilege claims.
5. A single document containing multiple email messages (i.e., in an email chain) may be logged as a single entry.
6. Each entry on a privilege log must indicate each person, group, or entity who was acting in a legal capacity with respect to that particular Document.
7. If the Producing Party contends that more than one basis for withholding applies to a single Document, all bases must be asserted in the privilege log.
8. Exclusions. To the extent any of the following Documents are privileged or otherwise protected from disclosure by Federal Rule of Civil Procedure 26(b)(3)-(4), they may be excluded from privilege logs:
 - a. Documents or communications sent solely between outside counsel for the Defendant (or persons employed by or acting on behalf of such counsel);

- b. Documents or communications sent solely between counsel for the United States (or persons employed by the United States Department of Justice);
- c. Documents or communications sent solely between counsel for the United States (or persons employed by the United States Department of Justice) and counsel for any state (or persons employed by any the office of the attorney general of any state);
- d. Documents or communications sent solely between outside counsel for Defendant and inside counsel for Defendant;
- e. Documents or communications sent solely between counsel for the United States (or persons employed by the United States Department of Justice) and counsel for any Federal Agency Advertiser;⁴
- f. Documents or communications sent solely between counsel for any state and counsel for another state (or persons employed by the office of the attorney general any state);
- g. Documents or communications sent solely between counsel within any state (or persons employed by the office of the attorney general of any state);
- h. Documents or communications dated after January 24, 2023 and privileged solely on the basis that they relate to the prosecution or defense of this Action;
- i. Documents that are non-discoverable or excluded from privilege log obligations under the Expert Stipulation; and
- j. Documents that are not required to be logged under Section V(8)(g) of the ESI Order governing the multidistrict litigation captioned as In re Google Digital Advertising

⁴ With respect to specific requests for production, the parties agree to meet and confer regarding whether this subsection (e) should apply to documents or communications sent solely between counsel for the United States (or persons employed by the United States Department of Justice) and counsel for federal government agencies other than the FAAs.

Antitrust Litigation that is pending in the U.S. District Court for the Southern District of New York under docket number 21-md-03010-PKC.⁵

9. If a Document contains both privileged and non-privileged communications, the non-privileged communications must be produced, either by separately producing a copy of the non-privileged communications embedded in the privileged communication, or by producing a copy of the entire communication string with the privileged portion(s) redacted. The redactions shall be narrowly applied so the Receiving Party has the ability to discern to the maximum extent practicable the privilege assertion within the Document and to view all non-privileged communications and material.
10. Redactions based on relevance or responsiveness or confidentiality are disallowed.⁶ For the avoidance of doubt, (a) to the extent that any Document contains or reflects Source Code, as defined by the Protective Order, ECF No. 98, such Document will be governed by Appendix C of that Order, and (b) nothing in this Order prevents any party from redacting personal data and personally identifying numbers or sensitive information from produced documents, consistent with the requirements under Federal Rule of Civil Procedure 5.2 and Local Rules. The Parties do not waive any objections to the production, discoverability, admissibility, or confidentiality of Documents.
11. If a Document is produced with redactions, the redactions must not obscure any header information (e.g., from, to, subject, sent date) of any emails or other communications reflected in the Document, except to the extent that information is privileged.
12. A Party who, pursuant to a request under Federal Rule of Civil Procedure 34 or a non-party, pursuant to a request under Federal Rule of Civil Procedure 45, re-produces

⁵ Nothing in this order precludes any party from moving, upon a showing of good cause, to modify these exclusions with respect to specific requests for production.

⁶ The parties agree to meet and confer if one of the FAAs claims that producing certain documents on an unredacted basis would affect national security.

Documents from other matters, may produce privilege logs relating to that production in the manner they were produced in such other matters, so long as the privilege logs comply with Federal Rule of Civil Procedure 26(b)(5)(A). The party shall, however, reproduce these logs in Excel format upon request if reasonably possible to do so.

VI. MISCELLANEOUS PROVISIONS

1. Motions. The parties shall raise discovery disputes in accordance with this Court's Local Rules.
2. Costs of Document Production. Unless this Court orders otherwise for good cause shown, each party and non-party shall bear the costs of collecting, processing, reviewing, and producing its own documents.
3. Integration/Appendices. The following documents are incorporated herein by reference:
 - a. "Appendix 1" is a document describing the production format and fields to be included in the documents produced by each party.

IT IS HEREBY SO ORDERED this 20th day of April, 2023.

/s/ [Signature]
John F. Anderson
United States Magistrate Judge

APPENDIX 1: PRODUCTION FORMAT

A. Production Components. Except as otherwise provided below, ESI shall be produced in accordance with the following specifications:

1. An ASCII delimited data file (.DAT) with ASCII 020 for the comma character and ASCII 254 for the quote character and ASCII 174 for new line character, with all values in a multi-value field separated by a semi-colon ASCII 059 (with the use of commas and quotes as delimiters not acceptable using standard delimiters) and encoded in UTF-8;
2. An image load file (.OPT) that can be loaded into commercially acceptable production software (e.g. Concordance). The Image Load File shall contain the following comma-delimited fields: BEGBATES, VOLUME, IMAGE FILE PATH, DOCUMENT BREAK, FOLDER BREAK, BOX BREAK, PAGE COUNT;
3. TIFF images;
4. Document level .TXT files for all documents containing extracted full text or OCR text;
5. Parent-child relationships will be maintained in production and child files should be produced consecutively following parent files and shall be sequentially Bates stamped. The Producing Party shall ensure the metadata fields for BegAttach and EndAttach referenced in Parts D and E of this Appendix A are accurately populated;
6. Document families must be produced, even if only the parent email or an attachment to an email is responsive, except (1) common system files and application executable files pursuant to paragraph III.4 above, and (2) documents that are withheld on the basis of attorney-client privilege or work product protection. For the avoidance of doubt, documents that are linked are not part of the same family for purposes of this Order. Linked documents are governed by Section K below.

If a particular document or category of documents warrants a different production format, for example if it is impractical to produce an entire document family for particular documents, the parties will cooperate in good faith to arrange for a mutually acceptable production format.

B. Production Media and Access Controls. Documents shall be produced through electronic means, such as the DOJ's secure file sharing method (JEFS) or on CD, DVD, flash drive or external hard drive ("Production Media"). Each piece of Production Media shall identify a production number corresponding to the production volume (e.g. "VOL001"). Each piece of Production Media shall also identify: (a) the producing party's name; (2) the production date; (3) the Bates Number range of the materials contained on the Production Media.

Nothing in this Order will preclude or impair any and all protections provided the parties by any Protective Order(s) agreed and entered into by the parties. Any data produced by the producing party must be protected in transit, in use, and at rest by all in receipt of such data. Parties will use best efforts to avoid the unnecessary copying or transmittal of produced documents. Any copies made of produced data must be kept on media or hardware employing whole-disk or folder level encryption or otherwise secured on information systems and networks in a manner consistent with the best practices for data protection. If questions arise, Parties will meet and confer to ensure security concerns are addressed prior to the exchange of any documents.

C. Data Load Files/Image Load Files. All production items will be provided with a delimited data file or "load file," which will include both an image cross-reference load file (such as an Opticon file) and a metadata (.dat) file with the metadata fields identified below on the document level to the extent available. Each TIFF in a production must be referenced in the corresponding image load file. The total number of documents referenced in a production's data load file should match the total number of designated document breaks in the image load file(s) in the production. The total number of pages referenced in a production's image load file should

match the total number of TIFF files in the production. All images must be assigned a unique Bates number that is sequential within a given document and across the production sets. The Bates numbers in the image load file must match the corresponding documents' beginning Bates numbers in the data load file. The total number of documents in a production should match the total number of records in the data load file. Load files shall not vary in format or structure within a production, or from one production to another.

D. Metadata Fields—Google and Non-Parties. With the exception of hard copy paper documents, which are separately addressed in paragraph N below, and except as provided in I.2, Google and non-parties shall produce each of the metadata and coding fields set forth below to the extent that it is reasonably practicable to do so. Google and non-parties are not obligated to populate manually any of the fields below if such fields cannot be extracted from a document, with the exception of the following: (a) BEGBATES, (b) ENDBATES, (c) BEGATTACH, (d) ENDATTACH, (e) CUSTODIAN, (f) ALLCUSTODIANS, (g) CONFIDENTIALITY, (h) REDACTIONS, (i) NATIVEFILEPATH, and (j) TEXTFILEPATH, which should be populated by Google or the non-party, or the respective vendor. Google and non-parties will make reasonable efforts to ensure that metadata fields automatically extracted from the documents correspond directly to the information that exists in the original documents.

Field Name ⁷	Field Description
BEGBATES	Beginning Bates number as stamped on the production image
ENDBATES	Ending Bates number as stamped on the production image
BEGATTACH	First production Bates number of the first document in a family

⁷ Field names can vary from system to system and even between different versions of systems. Thus, Parties are to be guided by these Field Names and Field Descriptions when identifying the metadata fields to be produced for a given document pursuant to this ESI Protocol Order.

ENDATTACH	Last production Bates number of the last document in a family
CUSTODIAN	Individual from whom the document originated
ALLCUSTODIAN(S)	Individual(s) whose documents de-duplicated out
CONFIDENTIALITY	Confidentiality designation assigned to document
MD5 HASH VALUE	MD5 hash value of document
SOURCE HASH VALUE	Google Drive Source hash value
AUTHOR	Any value populated in the Author field of the document and/or Google Drive properties (Edoc or attachment only)
DATECREATED	Date the document was created (format: MM/DD/YYYY) (Edoc or attachment only)
DATEMODIFIED	Date when document was last modified according to filesystem information (format: MM/DD/YYYY) (Edoc or attachment only)
FROM	The name and email address of the sender of the email
TO	All recipients that were included on the "To" line of the email
CC	All recipients that were included on the "CC" line of the email
BCC	All recipients that were included on the "BCC" line of the email
ATTACHMENT COUNT	Number of Attached Documents
ATTACHMENT NAME	File name of the document attachment or embedded document; associate with the parent/email which lists any and all filenames of the children/attachments delimited by a semicolon. The field would be populated for parent documents (not for the children)
ATTACHMENTID	The IDs of the documents that are attached to the produced document
COMPANIES	Globally populated field containing the name of producing party (not the law firm or vendor name). Not pulled from metadata.
DATE CREATED	Date the electronic file was created. Format: MM/DD/YYYY.
TIME CREATED	Time the electronic file was created (format: HH:MM:SS)

DATE RECEIVED	Date email was received (format: MM/DD/YYYY)
DATE SENT	Date email was sent (format: MM/DD/YYYY)
DATE START	Start date and time of calendar appointments, voice messages, chats, text message conversations. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included.
DATE END	End date and time of calendar appointments, voice messages, chats, text message conversations. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included.
DOCUMENT TYPE	The file type for Google files. See https://support.google.com/vault/answer/6099459#drivexml&zippy=%2Cfile-parameters-in-the-metadata-file .
DOC LINK	Metadata tying linked and linking documents, per Section K, below.
FILE SIZE	The original file size of the produced document
ORIGINATING PATH	File path of the file as it resided in its original environment. For email, the full folder path of email within a mail store when collected, including file name; or full folder path of instant message or text message when collected including file name; or Hard Copy folder/binder title/label. Prepend with Custodian Name (sample: Smith, James-Inbox\Active). For other documents, the full absolute original path to the native, including original file name and root directory as they existed in their original environment, such that all information needed to locate the file is in the path. Prepend with recognizable Custodian Name; e.g. Smith, James-C\MyDocuments\Sales Info\ACME\2017-Monthly- Sales.xlsx
REDACTIONS	Indicate Yes if a document is redacted. If no leave blank.
NATIVE LINK	Native File Link (Native Files only)

EMAIL THREAD ID	Unique identification number that permits threading of email conversations. For instance, MS Outlook identification number ("PR CONVERSATION INDEX") is 22 bytes in length, followed by zero or more child blocks each 5 bytes in length, that facilitates use of email threading. (Microsoft application documents only)
TEXTFILEPATH	Path to extracted text/OCR file for document
EMAILSUBJECT	Subject Line of email
TIMESENT	Time email was sent
TIMEZONEUSED	Time zone used to standardize date/time during document processing
RECEIVETIME	Time email was received
FILENAME	File Name of the edoc or email
TITLE	Any value populated in Title field of the document properties
SUBJECT	Any value populated in the Subject field of the document properties
DOCEXT	File extension of the document
WITHHELD PLACEHOLDER	To the extent a document is fully withheld (on the basis of privilege or otherwise), this field must be populated with a "Y". If not applicable leave blank.
TECHNICAL ISSUE PLACEHOLDER	To the extent a file is withheld on the basis of a technical issue, this field must be populated with a "Y". If not applicable leave blank.
VOLUMENAME	Unique production volume identifier applied (e.g., ABC001-001).
PAGECOUNT	For Documents produced in TIFF form, number of pages in the Document. For Documents produced in native, page count will be 1 (for placeholder)

E. Metadata Fields—Plaintiffs. With the exception of hard copy paper documents, which are separately addressed in paragraph N below, and except as provided in I.2, Plaintiffs shall produce documents containing the following metadata, where such metadata is reasonably available. Plaintiffs are not obligated to populate manually any of the fields below if such fields cannot be extracted from a document, with the exception of the following: (a) BEGBATES, (b)

ENDBATES, (c) BEGATTACH, (d) ENDATTACH, (e) CUSTODIAN, and (f) FILEPATH,

which should be populated by Plaintiffs or the Plaintiffs' vendor. Plaintiffs will make reasonable efforts to ensure that metadata fields automatically extracted from the documents correspond directly to the information that exists in the original documents.

Field Name	Field Description	Field Type	Hard Copy	Email	Other ESI	Calendar Items	IMs, Texts, Chats
DOCID	The unique sequential document control number of the first page of the document. Cannot contain spaces or special characters.	Note Text	✓	✓	✓	✓	✓
ENDDOC	The unique sequential control number of the last page of the document. Cannot contain spaces or special characters.	Note Text	✓	✓	✓	✓	✓
COMPANIES	Globally populated field containing the name of producing party (not the law firm or vendor name). Not pulled from metadata.	Multi-Entry	✓	✓	✓	✓	✓
CUSTODIAN	Name of the individual, or group/department for shared resources, from whose files the document originated. Format: Last, First or ABC Dept. Use consistent naming and formatting across all productions.	Note Text	✓	✓	✓	✓	✓
ALLCUSTODIANS	All custodians who were in possession of a deduplicated document, including the person or group identified in the CUSTODIAN field. Format: Last, First or ABC Dept. Use consistent naming and formatting across all productions.	Multi-Entry	✓	✓	✓	✓	✓
MEDIAID	The unique identifier applied to each physical piece of media delivered (e.g., ABC001).	Note Text	✓	✓	✓	✓	✓
VOLUMENAME	Unique production volume identifier applied (e.g., ABC001-001).	Note Text	✓	✓	✓	✓	✓
BEGATTACH	Used for documents in a family group (e.g. an email with attachments). Populated with the document control number of the parent document. Populated for each child document as well as the parent document.	Note Text	✓	✓	✓	✓	✓
ENDATTACH	Used for documents in a family group (e.g. an email with attachments). Populated with the ENDDOC of the last child record in the family group. Populated for each child document as well as the parent document.	Note Text	✓	✓	✓	✓	✓

EPROPERTIES	Indicates record type, privilege, translation and other notations. Include all that apply, only the applicable record type or notation category names should be entered: Record Type: Edoc, Edoc Attachment, Email, Email Attachment, Hard Copy, Calendar, Text Message, Text Attachment, IM, Chat, Chat Attachment, Audio, Video, Voicemail Other Notations: Placeholder, Translation, Translated Privilege Notations: Redacted, Privileged, Family Member of Priv Doc	Multi-Entry	✓	✓	✓	✓	✓
TIMEZONE	The TimeZone in which the custodian is normally located.	Note Text		✓	✓	✓	✓
FOLDERLABEL	Full folder path of email within a mail store when collected, including file name; or full folder path of instant message or text message when collected including file name; or Hard Copy folder/binder title/label. Prepend with Custodian Name (sample: Smith, James-Inbox\Active).	Multi-Entry	✓	✓		✓	✓
FROM	Sender of the Email, Instant Message, Text Message, Chat, or Calendar item.	Note Text		✓		✓	✓
TO	Primary recipients of the Email, Instant Message, Text Message, Chat, or Calendar Item. Separate multiple entries with a semi-colon followed by a space.	Multi-Entry		✓		✓	✓
CC	Copyees of the Email, Instant Message, Text Message, Chat or Calendar Item. Separate multiple entries with a semi-colon followed by a space.	Multi-Entry		✓		✓	✓
BCC	Blind Copyees of the Email, Instant Message, Text Message, Chat or Calendar Item. Separate multiple entries with a semi-colon followed by a space.	Multi-Entry		✓		✓	✓
SUBJECT	Subject line of the Email, Instant Message, Text Message, Chat, calendar item, or Notes item.	Note Text		✓		✓	✓
DATEHC	Date of hard copy documents, if coded. Format: MM/DD/YYYY. Leave time segment blank.	Date	✓				
DATESENT	Date and time the Email, Instant Message, Text Message, Chat or Calendar Item was sent. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included).	Date-Time		✓		✓	✓
DATERECEIVED	Date and time the Email, Instant Message, Text Message, Chat or Calendar Item was received. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included.	Date-Time		✓		✓	✓

HEADER	The internet header information from each Email.	Note Text		✓		✓	
INTERNETMSGID	Internet message ID assigned by the outgoing mail server which typically includes messageid and a domain name. Example: 0E6648D558F338179524D555@m1p.innovy.net	Note Text		✓		✓	
MESSAGEID	Unique identifier of email messages in mail stores. EntryID for Microsoft Outlook, the UniqueID (UNID) for Lotus Notes, or equivalent value for other proprietary mail store formats.	Note Text		✓		✓	
INREPLYTOID	Internet message ID of the Email being replied to.	Note Text		✓		✓	
CONVERSATIONINDEX	Conversation index value for Microsoft Exchange emails.	Note Text		✓		✓	
IMPORTANCE	Indicates priority level set for message.	Note Text		✓		✓	✓
DELIVERYRECEIPT	Delivery receipt request notification for Email messages.	Note Text		✓		✓	
READRECEIPT	Read Receipt request notification for Email messages.	Note Text		✓		✓	
SENSITIVITY	Sensitivity field from Email messages or calendar items.	Note Text		✓		✓	
REVISION	Revision number extracted from metadata of native file.	Note Text			✓		
DATECREATED	Date and time the electronic file was created. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included).	Date-Time			✓		✓
DATESAVED	Date and time the electronic file was last modified. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included.	Date-Time			✓		✓
EORGANIZATION	"Company" field value pulled from the metadata of a native file.	Note Text			✓		
EAUTHOR	Author field value pulled from the metadata of a native file.	Note Text			✓		
LASTAUTHOR	Last Saved By field value pulled from metadata of a native file.	Note Text			✓		

ESUBJECT	Title or Subject field value pulled from metadata from electronic file.	Note Text			✓		
FILENAME	Original file name of the native file, including file extension.	Note Text		✓	✓	✓	✓
APPLICATION	Application used to create or transmit the original native files, document, message, appointment (e.g., WhatsApp, Excel, Slack, Outlook, Snapchat, Word, Twitter, Gmail, Tango).	Note Text		✓	✓	✓	✓
FILEEXTENSION	File extension of original native file; e.g. XLSX, PDF, DOCX	Max 5 chars		✓	✓	✓	
FILEPATH	Full qualified original path to the native when collected, including original file name. Prepend with recognizable Custodian Name; e.g. Smith, James-C\My Documents\Sales Info\ACME\2017-Monthly-Sales.xlsx	Multi-Entry		✓	✓	✓	
DOCLINK	File path location to the current native file location on the delivery medium.	Note Text			✓		
DATESTART	Start date and time of calendar appointments, voice messages, chats, text message conversations. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included.	Date-Time				✓	✓
DATEEND	End date and time of calendar appointments, voice messages, chats, text message conversations. Format: MM/DD/YYYY HH:MM:SS (use 24 hour times, e.g., 13:32:00 for 1:32 pm); time zone indicators cannot be included.	Date-Time				✓	✓
ACCOUNT	Unique account ID	Note Text					✓
DURATION	The elapsed time of the audio, video, voice message. Format HH:MM:SS	Note Text			✓		
DIRECTION	Identifies direction of communication or other routing information; Outgoing, Incoming.	Note Text					✓
TXT-CHATROOMNAME	Name of chat room used in the communications.	Note Text					✓
TXT-PARTICIPANTS	List of participant names and/or telephone numbers.	Note Text					✓
TXT-BODY	Body of text messages, instant messages, notes, or chats. Do not populate for emails or calendar items.	Note Text					✓

TXT-STATUS	Indicates whether text was Sent or Read on the device.	Note Text					✓
TXT-THREAD-GROUP	Populate with the DOCID of the first text in a conversation or chat.	Note Text					✓
HASHMD5	Document MD5 hash value (used for deduplication or other processing).	Note Text		✓	✓	✓	✓
HASHSHA	Document SHA hash value (used for deduplication or other processing).	Note Text		✓	✓	✓	✓
SPECNO	Subpoena/request paragraph number to which the document is responsive.	Multi-Entry	✓	✓	✓	✓	✓
SEARCHVALUES	Specific search terms used to identify the record as responsive (if used).	Multi-Entry	✓	✓	✓	✓	✓

F. TIFFs. Documents that exist only in hard copy format shall be scanned and produced as TIFFs. Documents that exist as ESI shall be converted and produced as TIFFs, except as provided below. The imaged data shall retain all attributes of the native or hard-copy file to the extent reasonably practicable. To the extent reasonably practicable, produced TIFF images will show all text and images that are visible in the form in which the electronic document was last saved, with the exception of redacted portions. Hidden content, tracked changes or edits, comments, notes, and other similar information, shall to the extent reasonably practicable, be produced in native or Microsoft-equivalent format, or be imaged so that such content is viewable on the image file.

Where hidden content, tracked changes or edits, comments, notes, or other similar information is not readable in its produced format, a party that received the document may make reasonable requests that a more readable version, such as a native or Microsoft-equivalent version, be produced when helpful to interpret the contents of the relevant document. To the extent a response to discovery requires production of Document(s) accessible only through proprietary or enterprise software, the Parties shall meet and confer to finalize the appropriate production format. Unless excepted below, single page, black and white, Group IV TIFFs should be

provided, at least 300 dots per inch (dpi) for all documents, with corresponding multi-page text and necessary load files. Each TIFF image shall be named according to a unique corresponding Bates number associated with the document. Each image shall be branded according to the Bates number and the agreed upon confidentiality designation. Original document orientation should be maintained (i.e., portrait to portrait and landscape to landscape). Documents that are difficult to render in TIFF because of technical issues, or any other documents that are impracticable to render in TIFF format, may be produced in their native format with a placeholder TIFF image stating "Document Produced Natively." A producing party retains the option to produce ESI in alternative formats if so agreed by the requesting party, which may include native format, or a combination of native and TIFF formats. For future productions of documents responsive to properly propounded requests issued pursuant to Fed. R. Civ. P. 34 and 45, the producing party will make reasonable efforts to identify documents with readability issues in advance of production and, where issues are detected, to produce the document(s) in a more readable format (such as in native or Microsoft-equivalent form). The foregoing provisions of Section F do not apply to Investigation Materials (as defined in the governing Confidentiality Order, ECF No. 297) or other cloned discovery. To the extent that Investigation Materials or other cloned discovery contain documents responsive to properly propounded requests issued pursuant to Fed. R. Civ. P. 34 and 45 where the TIFF image is unreadable or has materially degraded the quality of the original, the producing party shall, when requested and where possible and proportionate, provide a higher quality TIFF image, or the native, Microsoft-equivalent, or original file. The provisions of this Section F apply to any type of document (including emails, presentations, spreadsheets, and other types of documents).

G. Color. A party that received a production may make reasonable requests that color images be produced where color is helpful to interpret the contents of the relevant document. The production of documents and/or ESI in color shall be made in single-page JPEG format (300 DPI).

All requirements for productions stated in this ESI Protocol regarding productions in TIFF format apply to any productions of documents and/or ESI in color made in such an alternative format. Reasonable requests that a document be produced in color for the reasons set forth in this Paragraph will not be unreasonably denied by the producing party. If a producing party wishes to object, it may do so by responding in writing and setting forth its objection(s) to the production of the requested document in color.

H. Text Files. A single multi-page text file shall be provided for each document, and the filename should match its respective TIFF filename. When possible, the text of native files should be extracted directly from the native file. Text files will not contain the redacted portions of the documents. A commercially acceptable technology for optical character recognition "OCR" shall be used for all scanned, hard copy documents and for documents with redactions. All Documents shall be produced with a link in the TextLink metadata field.

I. Native Files. Spreadsheets (e.g. MS Excel) will be produced in native format unless redacted. In the event spreadsheets require redactions, they shall be produced in Microsoft-equivalent format (.xls, .xlsx).⁸ If a Requesting Party reasonably determines that a redacted file is not reasonably usable, the Requesting Party and the Producing Party will discuss an alternative method to produce the file in a reasonably usable format. To the extent that they are produced in this action, audio, video, and multi-media files will be produced in native format. Native files shall be produced with a link in the NATIVEFILEPATH field, along with extracted text (where extracted text is available) and applicable metadata fields set forth in paragraphs D or E above. A Bates numbered TIFF placeholder indicating that the document was provided in native format must accompany every native file.

⁸ If a large number of excels require redaction, the parties agree to meet and confer to agree upon reasonable modifications to this paragraph to facilitate the production of those documents.

J. Request for Other Native Files. Other than as specifically set forth above, a producing party need not produce documents in native format. If a party would like a particular document produced in native format and this ESI protocol does not require the production of that document in its native format, the party making such a request shall explain the reason for its request that the document be produced in its native format. The requesting party will provide a specific Bates range for documents it wishes to be produced in native format. The producing party need only produce such a document in native format if reasonably practicable. Any native files that are produced should be produced with a link in the Native Link field, along with all extracted text and applicable metadata fields set forth in Sections D and E of this Appendix 1.

K. Linked Files and Collaborative Work Environments. For documents responsive to properly propounded requests issued pursuant to Fed. R. Civ. P. 34 or 45, the producing party shall conduct an automated search across all emails to be produced, where the producing party has access to a tool capable of performing such an automated search, to identify any emails that contain links to another document and will conduct a reasonable search for the document corresponding with each identified link. A receiving party may also make reasonable and proportionate requests that the producing party conduct a reasonable search for relevant documents identified via hyperlinks. For each link identified by the receiving party, the producing party shall conduct a reasonable search for the document corresponding with the link. The producing party shall process and produce relevant documents corresponding with the links with reasonably available metadata. For documents produced pursuant to this Section K, the producing party is not required to conduct any further search of documents corresponding with the links. The provisions of this Section K apply to any type of document (including emails, presentations, spreadsheets, and other types of documents). For documents produced pursuant to this Section K,

the producing party shall produce DOC LINK metadata as defined in Sections D and E of this Appendix 1.⁹

L. Confidentiality Designation. Responsive documents in TIFF format will be stamped with the appropriate confidentiality designations in accordance with the Protective Order entered in this matter. Each responsive document produced in native format will have its confidentiality designation identified in the filename of the native file and indicated on its corresponding TIFF placeholder.

M. Databases, Data Sources, Logs, and Other Structured Data. The parties shall meet and confer regarding the production format and scope of data contained in databases, data sources, and logs in order to ensure that any information produced is reasonably usable by the receiving party and that its production does not impose an undue burden on the producing party. To avoid doubt, information will be considered reasonably usable when produced in Parquet or other commonly utilized electronic formats, including CSV format, other character-delimited text format, Microsoft Excel format, or Microsoft Access format. To the extent a party is constrained from producing responsive ESI because of a third-party license or because software necessary to view the ESI is hardware-dependent, the parties shall meet and confer in an attempt to reach an agreement on whether alternative methods exist to enable the requesting party to view the ESI.

N. Paper Documents. A producing party may make paper documents available for inspection and copying in accordance with Federal Rules of Civil Procedure 34 and 45 or, additionally or alternatively, scan and OCR paper documents. The following information shall be produced in the load file accompanying production of paper documents produced by scan and OCR to the extent reasonably practicable: (a) Beg Bates, (b) End Bates, (c) Custodian, (d) Confidentiality, (e) Redacted; (f) BegAttach (if applicable), (g) EndAttach (if applicable), (h) TextLink, (i)

⁹ Alternatively, for a document where an email has a hyperlink to another document, the producing party may produce the email with the hyperlinked document as an attachment.

HashValue. Paper documents should be logically unitized for production to the extent reasonably practicable. Generally, when scanning paper documents for production, distinct documents shall not be merged into a single record and single documents shall not be split into multiple records. The parties will make reasonable efforts to unitize documents correctly. Where a document or a document group — such as a folder, clipped bundle, or binder—has an identification spine or other label, the information on the label shall be scanned and produced as the first page of the document or grouping to the extent reasonably practicable.

O. Date and Time. No party shall modify the date or time as contained in any original ESI. This provision does not prevent parties from deleting inaccurate date or time information that arises as an incident of collection or processing.

P. Time Zone. To the extent reasonably practicable, ESI items shall be processed using a consistent time zone and the time zone shall be disclosed to the requesting party.

Q. Auto Date/Time Stamps. To the extent reasonably practicable, ESI items shall be processed so as to preserve the data/time shown in the document as it was last saved, not the date of collection or processing.

R. Hidden Text. ESI items shall be processed, to the extent practicable, in a manner that preserves hidden columns or rows, hidden text and fields, worksheets, speaker notes, tracked changes, and comments.

S. Bates Numbers. Bates number must always: (1) contain no special characters or spaces;¹⁰ (2) for TIFF images, be sequential within a given Document; (3) identify the Producing Party; (4) maintain a constant length of nine numeric digits (including 0-padding) across the entire production; and (5) be unique across the entire production. Bates number must also maintain consistent numbering across a family of Documents. Bates numbers shall

¹⁰ For the avoidance of doubt, hyphens, dashes, and underscores are permitted and are not “special characters” within the meaning of this provision.

not be applied in a way that causes the text of the original Document to be obscured, deleted, or removed. If the Document contains a Bates number from a prior lawsuit, investigation, or production, the Producing Party shall avoid obscuring the previous Bates number or alternatively, shall provide a metadata overlay allowing the Requesting Party to identify the corresponding Bates number.

T. Compression Files. Compression or container file types (e.g., .CAB, .GZ, .RAR, .ZIP), shall, where possible, be decompressed to ensure that a compressed file within a compression or container file are decompressed into the lowest possible compression resulting in individual folders and/or files. Original compression files and container files need not be produced, provided that all Documents within the compression or container file are produced in accordance with the specifications of this Order.

U. Password Protected/Encrypted Files. To the extent Documents are password-protected or encrypted, the requesting party may make reasonable requests for the producing party to process such Documents for review. To facilitate the identification of such documents, the producing party shall provide a slip-sheet for any document that failed to process because it was password-protected or encrypted. Any slip-sheet produced pursuant to this Appendix U shall indicate that the reason the document failed to process was password-protection or encryption, as applicable. The producing party shall use reasonable efforts to produce such documents where possible and proportionate to do so. The parties shall meet and confer to resolve any disputes arising under this Appendix U.